



TRI-STATE AMATEUR RADIO SOCIETY, INC.

Published monthly by the Tri-State Amateur Radio Society, Incorporated, as its official organ.

JANUARY 1965

Amateur Radio W9LIT

Affiliated with the American Radio Relay League and the Indiana Radio Club Council.

Clifford C McGuyer, W9DGA PP, Editor. 476 7483

Herb Muth, W9NZC, Advertising Mgr. 423 0373

OFFICERS

President, K9PNJ	963 5015
Vice President, W9BKQ	853 8496
Secretary, W9LGQ	477 5938
Treasurer, W9DGA PP	476 7483

DIRECTORS

W9RDJ PP	476 7601
K9JQY	476 6836
W9LXA	985 3530
W9GFS PP	476 4825
K9PAR	424 7028
K9STX PP	425 3841

Emergency Coordinator, Ray Miller, W9OG PP, 476 1963.

JANUARY MEETING, THURSDAY, JANUARY 28.

Form 3457 Requested.

TRI-STATE SPARKS

Tri-State Amateur Radio Society, Inc.,

Clifford C McGuyer, W9DGA PP, Editor,

2900 East Oak Street,

Evansville, Indiana. 47714.



MEETING, Thursday,
Museum, 730 PM,
January 28.

Clifford McGuyer
2900 E. Oak St.
Evansville, Indiana

L9DGA

'64 was a good year for TARS and '65 promises to be even better. We are fortunate in having many of our timers regain interest in the Club, just when things were looking bleak. This is good because their talent and knowledge of electronics can be passed on to newer members, and what better way than thru TARS.

Our past president, Hank Galbraith, W9RDJ started several projects and ran out of time in '64 and I intend seeing them thru in '65 because they are worthwhile projects. A fine 2 meter FM group is being formed and Phil Hatfield, W9GFS PP informs us more equipment will be available in the future. This is our answer to CB for a public service in emergencies. All on the same frequency, fixed or mobile.

We still have a few pieces of gear left over from our disposal project of Club property. This was a mandate from you and I intend carrying out your wishes in '65.

All functions of the Club will be continued in '65 and I don't anticipate any great changes. Our forward movement will depend on your participation. For instance, it was suggested in '64 that our Hamfest be de-emphasized. This was not so, because everyone turned out to work and it was a near normal Hamfest. The same was true of Field Day and our Emergency Coordinator, Ray Miller, W9OG PP worked hard and was amazed at the last minute participation. So the same policy will be followed in '65. If you want an active progressive Club- you must work for it.

So far no one has turned me down on any job assignment. The following is a list of Officer, Directors and major committee chairmen. President, Earl J Green, K9PNJ; Vice Pres. Dr Thomas Westfall, W9BKC; Secretary, William Muir, W9LGC; Treasurer, Clifford McGuyer, W9DCA PP; Directors, Ralph Greene, K9JQY, John L LaVanchy, W9LXA, Henry A Galbraith, W9RDJ PP, Phil Hatfield, W9GFS PP, Morris W Johnson, K9PAR and Ralph Waldo, K9STX PP. Emergency Coordinator, Ray Miller, W9OG PP; Publicity, Don Weber, K9CWV; Election Board Earl Green, K9PNJ and two more yet to be appointed; Membership Fay Gehres, W9AIN PP; Programs, Henry Galbraith, W9RDJ PP; Auctioneer, Howard Campbell, W9JFJ PP; Advertising, Herb Muth, W9NZC; Editor and Publisher SPARKS, Clifford McGuyer, W9DCA PP; Resident Agent, Wilbur Weisling, W9OV; Club Historian, Ray Miller, W9OG PP; WOLFF Trustees, Fay Gehres, W9AIN, PP; RACES Liaison, Al Scheettlin, W9UMS PP; MARS Liaison, John Harkins, W9WUH; Hamfest, M Johnson K9PAR, J Alexander (next pg)

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Evansville, Vincennes, Indiana. Owensboro, Ky. Centerville, Illinois.

President, Cont'd.

W9YZO, J LaVachy, W9LXA, W9OG PP Ray Miller and Jack Young, K9LAU.

The Club policy will remain the same on TVI complaints and we will go out only when invited and not go looking for trouble. As much business will be transacted as possible at board meetings and this will give more time for technical talks, demonstrations and fellowship at the regular meetings. All members are invited and encouraged to attend board meetings Tuesday, the week preceeding last Thursday of each month at the Community Center at 730 PM.

From Joe Maddox, WA4RAV, Box 157, Irwinton, Georgia.

"Am still the only active ham in this County of Wilkinson. I hang around 7090 and 7040 in the mornings and late afterneons. Any of the Award seekers can find me around there"... Regards, Joe, WA4RAV.....

"WELCOME NEW TARS MEMBER"

George Robinson, K9PKG was voted to receive membership in TARS at the Executive Meeting, Tuesday, January 19. George lives on Route #1, Chandler, Indiana. If you hear George on the air or meet him at a club meeting be sure to make him welcome. It is our pleasure to have you as a TARS member, George. Good operating and DX.

"W9OG PP and W9DGA PP
TARS Sweepstakes Trohy Winners"

W9OG won TARS entry on phone, and W9DGA won the TARS entry on CW in the ARRL Sweepstakes contest. They both will be awarded a loving cup from

TARS. W9RDJ PP is making all the arrangements for this contest.

"SPECIAL ELECTION NOTICE"

Due to business reasons our newly elected secretary W9LGQ will be unable to serve. An emergency election will be held Thursday Jan 28 at the regular meeting. If you desire to vote by mail return the enclosed ballot. Nominations can be made from the floor. The nominating committee has submitted the name of Herb Muth, W9NZC to fill this office.

"BALLOT FOR TARS SECRETARY"

☐ Herb Muth, W9NZC.

☐

Members signature. _____
Mail to TARS, PO Box 492 to be received no latter than Wed afternoon Jan 27.

TARS 1965 Dues are now Payable.

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428 Pennsylvania Avenue
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Phone HA 22121

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"W9MKZ TO HEAD FOUNDERS DAY BANQUET"

At the Executive Meeting January 19 it was decided to combine the "ANNUAL WINTER MEETING" and the "FOUNDERS DAY BANQUET." In the future during the month of November TARS will hold its "ANNUAL FOUNDERS DAY BANQUET". This years affair will be headed by TARS Director Charles Robertson, W9MKZ. The purpose of this banquet is to honor all of TARS "Past Presidents". At the affair last year there were 15 years of presidents present out of a total of 18 years. This was a very good turnout of the PP.

"TARS JANUARY MEETING" By W9RDJ PP

The Tri-State Amateur Radio Society will hold its first meeting of 1965 at the Evansville Public Museum, Thursday, January 28, Starting promptly at 7:30.

The new president K9PNJ, Earl Green will make a "State of the Society" report to the membership. A film on "Radio" will be shown and "COFFEE AND DONUTS" will be served. All in all this should be a very interesting and informative meeting for all members. Make your plans to attend early.

"FIELD DAY 1965"

The ARRL "Field Day" will be held on the week end of June 26 and 27 this year. It is planned to hold TARS Field

Day at the same location as last year. All agreed that this location is just about ideal. Once again our Emergency Coordinator, Ray Miller, W9OG PP will be the man to lead us on to action. As this is one of TARS major functions throughout 1965, give it all the support you possibly can.

"AMATEUR RADIO AUXILIARY NEWS" By Dorothy McGuyer

The January meeting was held at the home of Dorothy McGuyer. Our newly elected president, Dorothy Smith, presided. She presented Anna Mary Fink, outgoing president, a bar for her successful leadership during the past year. (A gold pin is presented to each president at the conclusion of her term, and a gold bar is attached to pin denoting additional years serving as president.)

Dates, places and plans were discussed for the years meetings and coming social events.

Jeannette Covert was winner of the hostess prize and Dorothy McGuyer won the attendance drawing. Betty Miller, program chairman, supervised in the making of scrapbooks for children of Honduras. Included were paper dolls and pictures of the American Child's dress and customs. Congratulations to Mary Wurtz whose picture appeared in the U.C.T magazine. Mary was '64 president of the Evansville Auxiliary.

"CLEAN HAM GEAR"

Eice 90 Watt Transmitter	\$59.95
Knight Transmitter	44.95
Johnson "Matchbox"	45.00
Collins 32V3 Transmitter	250.00
WRL "Scout" Transmitter	59.95
Eice 50 Watt Plate Modulator	44.95
Portable Tape Recorder	15.95
SPECIAL!!!! Hallcrafters S-120 plus FREE Phones	69.95
Globe Transmitter Kit	89.95
NEW!!!! Gonset "Sidewinder"	399.50
Globe "Hi Bander" 6W2	110.00
Heath "Q" Multiplier	7.50
Eice Kits - Full Stocks	
Record Changers	24.95
Amece Theory Course Book	3.95
Fluorescent Desk Lamp	8.95

Come in - Look around
We May Have What You Want

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1014 West Franklin Street

ANNUAL FINANCIAL REPORT
TRI-STATE AMATEUR RADIO SOCIETY, INC.
1964

Bank Balance, Old National Bank January 1, 1964.

\$669.19

Income 1964. All deposited in the Old National Bank.

Dues	\$249.00	
Sparks	118.00	
Hamfest	708.60	
ARRL QST	27.00	
Founders Day Banquet	24.00	
Sale of Club Property	482.56	
Auctions	4.93	
Two Meter Transmitters	158.00	
Insurance Refund	23.36	
Annual Dinner Meeting	72.00	
	\$1867.45	
		\$1,867.45
		\$2,536.64

Expenses 1964.

Meetings	\$42.14	
Sparks	71.77	
Hamfest	607.55	
ARRL QST	27.00	
Post Office Box 492	18.00	
Club Supplies	27.11	
Founders Day Banquet	86.70	
Fees and Taxes	4.70	
Insurance	37.37	
Sale of Club Property	.41	
Generator Repairs	24.08	
Indiana Radio Club Council	5.00	
Flowers	10.20	
Field Day	34.06	
Two Meter Transmitters	316.00	
Radio School Supplies	9.40	
Annual Dinner Meeting	99.05	
	\$1420.54	
		\$1,420.54
		\$1,116.10

Bank Balance Old National Bank December 31, 1964.

Clifford C McGuyer, W9DGA, Treasurer.

"FCC FEES FOR AMATEUR LICENSE"

\$4..for initial license application, for a NEW CLASS operators license or for Renewal of License; or for a combination of modification and renewal.

\$2...for application for a modification of license without renewal.

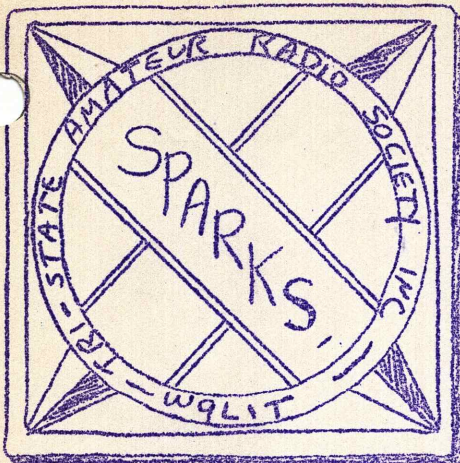
\$10..for application for a specific call sign.

available to non-members on a fee basis. \$35.00 has been allocated for this project by TARS. K9PNJ will spearhead the work on the directory.

Avoid the following DX prefixes. XU PK JZQ 3W8 and HS. WA9KKN was heard on 15 CW. WA9CDP and K9HCG on 15 meter phone. W9UMS and W9OG on 75 meters. W9WUH on six meters. A substantial drop in applications for Class D Citizens Radio Service licenses during most of 1964 have been running about half the normal rate. This is no doubt do to the fees now required for the permit.

"HAM DIRECTORY"

TARS will publish a directory of area amateurs and will provide a copy to members free. Copies will be made



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FEBRUARY 1965 Amateur Radio W9LIT

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Emergency Coordinator, Ray Miller, W9OG PP, 476 1963

FEBRUARY MEETING, THURSDAY, FEBRUARY 25.

Form 3457 Requested.
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Clifford C McGuyer, W9DGA PP, Editor
2900 East Oak Street
Evansville, Indiana. 47714.



MEETING, Thursday
CD Bldg, 111 & Baker Ave
730 PM, February 25.

Clifford McGuyer
2900 E. Oak St.
Evansville, Indiana

L9DGA

"THE PRESIDENTS CORNER"

By K9PNJ

The past few weeks I have been talking to many Amateurs who no longer are active on the bands. It seems they have good equipment on the air but when they tune across the frequencies, no activity, except on 75 meters. This to me means several things. First of all, we need organized amateurs and this means TARS. Radio means communications and it takes two or more to make this word meaningful. Hence make TARS your number one, on the road to successful, useful and happy Amateur Radio.

Some like CW, RTTY, Fone, AM, SSB, DSB, you name it and we have the mode. Some like 29.6 mc; 50.3 mc; 3.85 mc; 146.9 mc; you name it and we have it (except 11 meters). Some like only to build and this too requires organization thru TARS, for technical talks, demonstrations, auctions, trading and selling.

I was going thru some old Club papers the other day and run onto some, about 10 years old. It amazed me the dedication, sacrifice and down right hard work these old timers put into this Club of ours, to make it what it is today. For instance, did you know the DX100, HC129X (forerunner of present HC170) was acquired mainly from donations from fellows like Fay Gehres, Bob Fink, Clifford McGuyer, Phillip

Hatfield, Warren Baker, Howard Campbell, Herb Muth, Henry Galbraith, Doc Alexander and others including Bill Muir, Les LaVanchy, CW Robertson, Wilbur Weisling, John Harkins, Paul Wurtz and others. How do you think this club acquired the Treasury we have today?

Regardless of which direction you are going in Amateur Radio, you can not do it successfully unless we are well organized. A transmitter without a listener or a receiver without a signal is useless and this means same frequency, mode, effort and this can all be done in TARS.

"FEBRUARY MEETING"

Thursday Feb 25

NEW LOCATION

The regular February meeting of TARS will be held Thursday, Feb 25 at the Civil Defense Bldg, Old Hose House at Baker and Illinois Street, starting promptly at 7:30 PM.

W9JFJ TO BE THE AUCTIONEER

The program will be a big auction. Bring your items to be auctioned off or come for the bargains. Last year a ham bought a brand new 4CX5000TPK for only 75 cents and was guaranteed good. Howard "Humpy" Campbell, W9JFJ will once again be the auctioneer. Humpy is noted for his auctioneering. So, do not miss this one, be there.

"HAM GEAR"

RME Receiver	\$79.50
NC-121 Receiver	115.00
NC-60B Receiver	45.00
HC-110-C Receiver	169.50
Gonset Receiver	65.00
Eico 90 Watt Transmitter	69.50
Scope - 2 inches -	30.00
Viking I Transmitter	125.00
Headphones- Trimm Brand -	\$2.61 and 6.60
Tape Recorders	\$15.95 and 19.95, 54.95
FM-AM Clock Radio	59.95
New Gonset Linear Amplifier	\$59.00 Off
Thunderbolt, PA	350.00
B & W LPA-1000 Kit	269.50
B & W 5100 - B	199.50
Communicator III Six Meters	175.00
National NC-303	275.00
Eico 50 Watt Modulator	44.95
Eico Wide Band Scope	75.00
Sams Books, Handbooks, Call Books, Looking for Reading Matter?	
We Have it. CASTRUP'S, 1014 West Franklin St, Evansville, Ind.	

"JACK YOUNG HAMFEST CHAIRMAN"

Jack Young will head up the Hamfest Committee this year. The date is the last Sunday in August. It will again be held at ECCO VALLEY. Co-chairmen include Ray Miller, Morris Johnson and Al Grote. Another big affair is planned

"CLUB DIRECTORY TO GO TO PRESS"

The TARS Directory will go to press during the month of March. If you have not returned the questionnaire to K9PNJ, do so immediately to get your call listed in the "Directory". K9PNJ is working very hard to get all calls listed.

"NEW TARS MEMBER"

Sam Arthur, WA9JZX was voted to receive the benefits of TARS membership at the Executive meeting, Tuesday, Feb 16. Sam lives at 857 East Parkland Avenue. If you hear Sam on the air or meet him at a club meeting be sure to make him welcome. It is our pleasure Sam to have you as a TARS member.

"FAY GEHRES MEMBERSHIP CHAIRMAN"

Fay Gehres is the new Membership Committee Chairman for TARS. If you get behind in your dues you may get a call from Fay. This will be the first membership committee TARS has had in

several years. If you have a prospective new member pass the name and address along to Fay, W9AIN.

FOR SALE. SX-101-A, HQ140XA, 2 mtr gonset communicator 4, Hy-gain 203-B 20 meter beam, a 10 and a 16 element 2 meter beams, CDR Ham-M rotor. One good home brew phone patch. Phone G Robinson K9PKG at 925 6802, RR # 1 Chandler, Indiana. All like new.

"RUSS STRAIT DROPS N FROM CALL"

Russ Strait, WA9JXF, TARS member from RR#3, Mount Vernon has dropped the N from his call. Russ is to be congratulated for his elevation to the higher grade license. FB Russ.

The United States Supreme Court has refused to review the Federal Court of Appeals decision that the present FCC license application fees are legal. The only remaining means of overturning FCC fees is through congressional action.

"FIELD DAY 1965"

The ARRL Field Day will be held on the week end of June 26 and 27 this year. TARS will hold FD at the same site as last year. Ray Miller is the Field Day Chairman and promises another top notch Field Day as last year. Make your plans early. FD.

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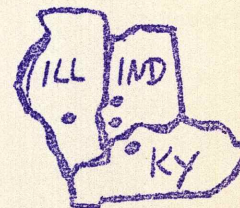
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"CRYPTOGRAM" FOR FEBRUARY

We had quite a large group of members who worked the Christmas Cryptogram so decided to give you another one. Should not take over 15 minutes.

GZOOX UZVDMSHMD SN ZKK SZQR LDLADCR

FCC has adopted the Conditional Class rules it proposed in Docket 15640, shown in full on page 56 of November 'ST. After April 15, applicants for Conditional Class under the distance rules must live more than 175 miles from an FCC office, quarterly or semi-annual examination point. There is no change in eligibility by reason of physical disability, military service, or overseas residence. PRESENT HOLDERS OF THE CONDITIONAL CLASS LICENSE ARE NOT AFFECTED IN ANY WAY. Full details will be shown in the April issue of 'ST.

At the last meeting a local amateur stated he had received a bad shock from his equipment. Therefore the following is reprinted for your benefit. We need ALL TARS members in good health.

In recent years, amateurs have been electrocuted and others have suffered injury, caused by the failure of bypass capacitors in the primary circuit of AC power supplies. This type of accident can be avoided by the use of a common

ground system linking all equipment chassis to a water pipe or other good ground connection. Send a stamped self addressed envelope with a note to ARRL requesting a copy of the Safety Code. Address your request to the ARRL Communications Department, 225 Main Street, Newington, Conn. Switch to safety and STAY ALIVE.

"AMATEUR RADIO AUXILIARY NEWS" By Dorothy McGuyer

The February meeting was held at the home of Betty Miller. We were indeed sorry our president, Dorothy Smith could not be with us and sincerely hope by this time she is feeling fine again. Our Vice President, Betty Miller presided in her absence.

We completed the scrapbooks for the children in Honduras. While working, our hostess, provided us with a wide variety of "tasty snacks" during the evening as well as delicious fresh strawberry pie for desert. The hostess prize was won by Jeannette Covert and Dorothy Green was winner of the attendance prize.

"MINIMUM PRICES ON EQUIPMENT"

Minimum prices on TARS equipment for sale at the auction is DX100, \$85; HC-170, \$200; Turner Microphone, \$10 and many more pieces of equipment will be for sale by Humpy Campbell, W9JFJ.

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MEETING, Thursday,
MARCH 25,
AUCTION with W9JFJ,
"OLE FIRE HOUSE"
BAKER AND ILLINOIS,
STREETS.

Clifford McGuyer
2900 E. Oak St.
Evansville, Indiana

L9DGA

"THE PRESIDENTS CORNER"

By K9PNJ

Here it is the end of March already and the year is $\frac{1}{4}$ over and TARS is moving right along. The Club Directory is finished, signed - sealed and ready for delivery to all paid up members. So get your dues into the Treasurer W9DGA and he will see you get your Directory free. To non-members the price will be 35 cents first come first served basis. Don't let this 35 cent price fool you for it is worth much more. A total of more than 100 man hours and \$35.00 was spent by K9PNJ and W9DGA. I also wish to thank Dorothy Green and Dorothy McGuyer for their help in getting out this directory.

Our February meeting was snowed out, so the March meeting should prove to be a good one. The Auction will be held then and come bring your goodies and take some home. The DX100 will be there as well as the HC170 and Turner microphone. Many more items were promised so it should be a good night or "Humpy". I might warn you, if we get too noisy, "Humpy" will bawl us out and say, "QUIET!!!"

C U at the AUCTION, Thursday, March 25, 7:30 PM, Baker and Illinois Streets at the Ole Fire House.

AUCTION, Thursday, March 25. Be there.

"BOARD OF DIRECTOR MEETING HIGHLIGHTS"

At the regular Board of Directors meeting held March 16 quite a few subjects were discussed at length. Director LaVanchy, W9LXA advised TARS has the Field Day site under contract to be used by TARS this year again. This was good news as all members remember the Field Day from last year. There is no doubt about it, that location just can't be beat. Thanks for the arrangements Les. All note Field Day this year is June 26-27. W9OG will again be in charge.

Also discussed was the new AC generator TARS will purchase. We may obtain two, a small 750 watt one man carry deal and a larger one for Base Station use running about 1750 watts or so. The Committee is still working on this and you will be advised later on their recommendations.

Director K9STX assured TARS that two generators from CD would be available for FD use if TARS did not obtain theirs yet.

Possible programs and what type was discussed.

"PRINCETON CLUB AUCTION"

Word has been received from W9FJI that their club will hold an auction, April 6, 7:30 PM at CD HDQS, 208 East Broadway. Refreshments will be served at no charge. Lets take a trip up!!!

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Evansville, Indiana
Phone HA 22121

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Coaxial Cables

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TREASURER'S REPORT

Feb 28, 1965

\$

January 1, 1965

Income to February 28, 1965.

Deposited Old National Bank

\$1,116.00

Dues	\$140.80
Sparks	111.00
ARRL QST	13.50
Two Meter Xmtrs	158.00
Trailer Sale	5.00
	<u>\$428.00</u>

428.00
\$1,544.00

Expenses to February 28, 1965.

Meetings	\$ 5.60
Sparks	28.72
ARRL QST	13.50
Hamfest	30.00
Directory	20.59
Club Supplies	3.00
	<u>\$101.41</u>

Deposited Old National Bank

-101.41
\$1,442.59

\$

Clifford C McGuyer, W9DGA, Treasurer.

"HAM DIRECTORY"

The Directory has been completed and will be issued to the paid up membership at no cost. There are a few copies left to be sold on a first come first served basis. The price is 35 cents each, not postpaid. Our President Earl Green, K9PNJ did a wonderful job on the Directory and is to be commended on his fine work. The cost to the club was \$33.73, thus the 35 cent price tag to non members. Pick up your copy Thurs.

"BOARD OF DIRECTOR MEMBER SLASHES FINGER"

Morris Johnson, K9PAR, a Director of TARS appeared at the Board of Directors meeting last Tuesday March 16 with a large bandage covering his entire left thumb. When asked about it Morris said he had cut it with his pocket knife. We all hope Morris a speedy recovery from his cut thumb. That is real dedication to attend a Board of Directors meeting with a sore left thumb. K9PAR is one of our unsung heroes of our club.

"HAM GEAR"

EICO Transmitter	\$49.50
Johnson Viking Transmitter	125.00
EICO Modulator	44.95
Johnson VFO	45.00
6 Meter Communicator	150.00
Waterman Scope	35.00
National NC-121 Receiver	115.00
National NC-188 Receiver	115.00
RME Receiver	89.50
Genet G-211	59.50
New Conset GSB-100	75.00 Off
Many others Coming soon!	
EICO SSB Transceiver 180 Watt Kit	179.95

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 1014 West Franklin Street
 Evansville, Ind
 PH 422-7618

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"TARS MARCH MEETING"

The regular meeting of the Tri-State Amateur Radio Society will be held Thursday March 25, at the "OLE FARE HOUSE" at the corner of Baker and Illinois Streets. The meeting will start promptly at 7:30 PM.

"W9JFJ TO BE AUCTIONEER"

The program for the March Meeting of TARS will be our ever faithful and regular auctioneer, Howard "Humpy" Campbell, W9JFJ, well known DX'er and Certificate Hunter who will lead the auction once again after many, many years of fine auctions. Humpy provides us with the means of obtaining real bargains or getting rid of our parts we are not using, and for Cash. No doubt about it, we have the largest turnout of the year at our auctions. Be there. Also pick up your Directory.

"AMATEUR RADIO AUXILIARY NEWS"

By Dorothy McGuyer

The March meeting of the ARA was cancelled. At this writing we are happy to report those who were unable to attend are feeling much better by this time. Evelyn Galbraith and Betty Miller have been keeping in shape by bowling. Plans are being made for our annual Founder's Day Dinner in April. Betty Miller will be in charge and we are looking forward to 100% attendance.

"OSCAR THREE"

Oscar three was successfully launched into orbit at 1830 GMT March 9. It is in an essentially circular orbit at an altitude of 502 miles, with an inclination of 70 degrees and an orbital period of 103.5 minutes. The translator passband is approximately 10 kc lower than originally planned. A confirmed contact between K9AAJ and K2IEJ was reported on the thirteenth orbit, as well as numerous contacts between other call areas. European contact between HB9RG and DL6EZA has also been established. W6EE, the Oscar Station, transmits corrected orbital data at 0000 and 0100 GMT on SSB, followed by RTTY then CW on 3810 7205 14,300 7040 14,080 7015 and 14,030 Kc. From 0400 to 0700 GMT W6EE will be on 3810 to collect information. Mail reports should go to project Oscar, Foothills College, Los Altos, California.

W9ABW, Edwin Spahn is now in Rochester NY with the Call of WB2LCO.... Field Day is coming up on us and we will be needing a generator, so come to the meeting and decide what kind of a generator you think we should have... W9MWM made trip to "ash DC... W9NJA is an expert Pistol Shooter... Foreign amateurs may now get permission to work within the United States.. Ask K9PNJ about the ten post cards..... The Aces are again National Champions.

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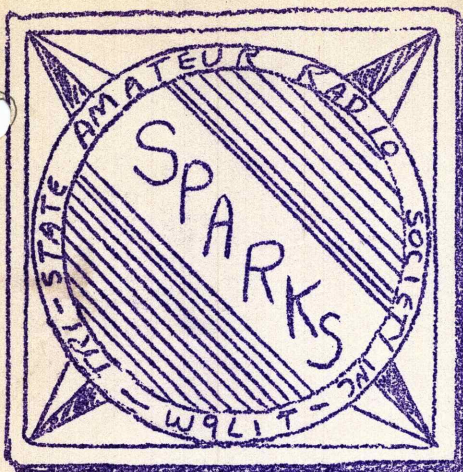
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TRI-STATE AMATEUR RADIO SOCIETY, INC.

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APRIL 1965 Amateur Radio W9LIT

Affiliated with the American Radio Relay League and the Indiana Radio Club Council.

Clifford C McGuyer, W9DGA PP, Editor. 476 7483

Herb Muth, W9NZC, Advertising Mgr. 423 0373

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APRIL MEETING, THURSDAY, APRIL 29.

Form 3457 Requested.
TRI-STATE SPARKS
Tri-State Amateur Radio Society, Inc.
Clifford C McGuyer, W9DGA PP, Editor
2900 East Oak Street
Evansville, Indiana. 47714.



BIG MEETING
Thursday, April 29
Be there for the
BIG event.

Clifford McGuyer
2900 E. Oak St.
Evansville, Indiana

L9DGA

"db = 10 log P/p"
By K9STX

The above formula (or more correctly definition) of a decibel is given in most books dealing with radio theory. The failure of most hams to understand the importance of this formula has contributed greatly to the profits of the manufacturers and dealers of amateur equipment and components. Translated into words this equation tells us that the power gain (or loss) in decibels is equal to ten times the logarithm of the ratio of the change in power.

Let us apply this formula to transmitters. We will assume that we are dealing with an amateur station where the only thing that we will change is the transmitter. The Viking Ranger with 65 watts input will be used as a base to make our comparisons, as will the assumption that it is putting an S-5 signal into a receiver with an accurate S meter.

Transmitter	Power Input	Cost	Signal
Viking Ranger II	65 Watts	\$ 250	S-5.0
Viking II	120 Watts	280	S-5.3
DX-100	120 Watts	190	S-5.3
Apache	120 Watts	235	S-5.3
Viking Valiant	200 Watts	350	S-5.8
Viking 500	500 Watts	650	S-6.5
Viking Kilowatt	1000 Watts	1930	S-7.0

While the prices that I have quoted are new prices, the gist of this table is that you are paying about \$1700 for two S units of gain on an AM signal. It is admitted that this cost could be reduced by half with a home brew transmitter. The same signal strength figures will apply if all of the transmitters are assumed to be side band transmitter with the same input values taken as PEP input power. This does reduce the cost of your two S units of gain to between two and four hundred dollars.

There is an additional word of caution that is necessary in considering this table and the calculated values. All of the receiver manuals that I have examined state, in one way or another, that the S meter is so arranged that one S unit is equal to six db. About 1956 one of the major manufacturers of receivers and transmitters, made a very brilliant discovery. Namely, that if a weak or moderately strong signal gave a reading of S-9 on the meter, our innocent ham believed that he had a very good, sensitive receiver. Most of the other manufacturers redesigned their S meter circuits on the basis of this "discovery". It pleased the ego of the ham who was told that he had an S-9 plus 20 db signal. So everyone was happy, if not wiser.

Now that we are thinking in terms of

the S meter readings that we are getting, let us consider antennas. For the time being, let us ignore the matter of the vertical angle of radiation of a particular antenna and the polarization of the antenna. If we assume optimum conditions, the following table will show the gain in db and the S meter readings when we assume that a dipole antenna will give an S-5 reading.

Antenna	Gain	S Units
Dipole	1.0	5.0
1/4 wave vertical	1.0	5.0
2 element beam*	5.0	5.8
3 element beam *	8.5	6.4
4 element beam *	9.5	6.6
5 element beam *	10.0	6.7
2 - 3 element beams 2	12.0	7.0
3 - 3 element beams *	15.0	7.5
2 element QUAD **	8.0	6.3
Tri Band 3 ele. Beam***	8.0	6.3

*Radio Handbook, 15th Ed. **ARRL Antenna Handbook. ***Moxley Electronic Advertized value.

Obviously, no attempt has been made to show the relative gains of some of the more complex low frequency antennas nor these practical at 144 mcs and higher.

Earlier I asked that we ignore the matter of the angle of radiation and polarization. Since the polarity of skip signals is essentially lost, the importance of polarity is only in working stations on ground wave. A matter that may be important in particular cases is random radio frequency interference. This can be reduced by approximately one S unit by going to horizontal polarization from vertical.

The angle of radiation becomes very important in working skip. There is an excellent article on this in the Nov 1962 issue of CQ starting on page 49 and giving the vertical angle of radiation for the more common antennas. The article may be summarized (with apologies to Commander Lee, W3JHR) by saying that a 5/8 wave vertical will give the lowest angle of radiation for vertical antennas. In the case of beam antennas, the angle of radiation can be reduced by stacking them 1/2 wave apart. An additional requirement is that the beam must be over a half wave length above the electrical ground. Incidentally the angle of radiation of a cubical quad antenna is essentially the same as a beam antenna, according to William I Orr's book "Cubical Quad Antennas".

The above information has been extracted, and summarized, to make it possible for you to make comparisons between signals from transmitters of various power inputs and to compare the gain in signal strength that can be obtained through the antennas against that obtained by increasing power. (Cont'd on the next page)

"db = 10 log P/p". Cont'd.

Even in the case of single side band, it is more economical to increase your signal by improving your antenna than by increasing the power. There is an additional bonus to be gained in increasing the effectiveness of your antenna in that you are increasing the sensitivity of your receiver by the same db gain as the figures given in the antenna table. There is the additional factor that increasing power usually increases TVI problems, increasing antenna gain and efficiency is much less apt to increase TVI.

It is recognized that compromises must be made due to cost, areas available for antennas, appearances and the XYL; however, a good compromise must be based upon factual data.

"FCC REGULATION PROPOSALS"

The complete text of the "Notice of Proposed Rule Making" received from the FCC is too long to be reproduced in "Sparks". As the complete text of Docket No. 15928 will be reproduced in its entirety in the May issue of QST, only the Official Bulletin will be printed here. It covers the docket very well.

Discussions have been held among several officers, members of the Board of Directors and members of TARS and all seemed to like the following proposal. Remember this is not official but will be discussed at the next Board of Directors meeting. The gist is that for years TARS has sponsored a radio amateur school for beginners and we have received some very good new club members in this manner, but the last couple of years (last year in particular) only one or two percent ever

received their license and last year not one student joined TARS.

The proposal is this, that TARS sponsor a seminar or discussion groups, including code for our members to upgrade their license, then charter a bus to Indianapolis, Louisville, St Louis or Nashville and go as a group to take an examination before an FCC examiner.

One member stated, "this would bring individual members closer together and would build up needed TARS esprit de corps" that has been lacking in the last decade or so.

This would be in line with recent discussions at the Board of Directors meetings regarding more technical talks and demonstrations for club programs.

The following are some of the reasons included why the FCC gives for the incentive license proposals.

From Regulations. Par 97.1. Basis and Purpose. The rules and regulations in this part are designed to provide an amateur radio service having a fundamental purpose as expressed in the following principles: (a) Recognition and enhancement of the value of the amateur service to the public as a voluntary non-commercial communications service, particularly with respect to providing emergency communications. (b) Continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art. (c) Encouragement and improvement of the amateur radio service through rules which provide for advancing skills in both the communication and technical phases of the art. (d) Expansion of the existing reservoir within the amateur service of trained operators, technicians, and electronics experts. (Cont'd next page)

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FCC Proposals Cont'd.

(c) Continuation and extension of the Amateur's unique ability to enhance international good will." (Underling supplied).

4. a. From a retired former Chief Signal Officer of the Army:

"During the early years of my military career (the 1930's) whenever an individual who possessed a radio amateur license came to my attention I did my utmost to have the individual assigned to communications work. His license spoke well of his technical understanding and intense interest. During the latter part of my career (the last decade or so) such has not been my feeling. The license has generally meant, "Here is another hobbyist- maybe he has it and maybe he doesn't". The license has lost its stature; it appears to be anybody's, just for the asking....."

b. From the Bar Association Librarian of a large city:

"It does not disturb me that for a time I may be precluded from operating in certain bands until I have demonstrated that I am able to understand and therefore successfully negotiate more advanced requirements. May I say here that I do not believe the reliability of commercially produced equipment to be any excuse for ignorance in its operators.

I see every reason to believe that the amateur service would flourish under an incentive program. In this era of continuously pressed demands for increased competence in every area of activity, I cannot see how amateur radio can prosper if it adheres to the comfortable ways of yesterday."

c. From the president of a leading electronics manufacturing company:

"A decade ago when a licensed radio amateur applied to the company for employment, mere possession of a "Ham Ticket" was sufficient guarantee that the holder was technically competent, could read a schematic, had the capability to learn, and was capable of mature growth in the industry. Many of today's leaders in the electronics field advance along this very path. Now, although the electronics industry is in chronic shortage of trained technicians and engineers, by and large, applicants for these jobs are not coming from the ranks of the radio amateur. Possession of a radio amateur license does not now mean that the holder is technically qualified in any sense. On the contrary, the Personnel Dept of this Company has been continually disappointed with the quality, calibre and technical ability of holders of radio amateur licenses to such an extent that such individuals are subjected to careful screening before they are considered for employment."

It goes on and on with information from education and Civil Defense people.

Official Bulletin from ARRL.
In their Notice of Proposed Rule Making the FCC explained at length the need for an incentive license structure which would encourage amateurs to increase their technical knowledge and operating skills. Incentives are proposed by reserving certain portions of the 80, 40, 20 and 15 meter c.w. and phone bands for the two highest classes, Extra and a new First Class, and by the use of call signs which would identify the class of license of the operator. A new First Class license is proposed requiring one year experience plus 16 wpm code and a written examination (Cont'd next page)

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To
Buy
Your
Radio
Parts"

FCC Proposals Cont'd.

between General and Extra in difficulty, and two letter calls might be available under certain circumstances. In addition, FCC proposes that Novices have a two year license term and retain present privileges except no two meter voice operation. The notice invited constructive comments and suggestions by July 15. The League's Executive Committee has reviewed the proposal and, in recognition of the importance of his call sign to most amateurs, has requested Headquarters to study possible revisions to minimize the possibility of drastic call sign changes and other hardships. The complete notice has been sent to all affiliated clubs and will be published in May QST. All amateurs are urged to withhold judgement until they have read and studied the notice and then to submit their suggestions to their Directors prior to the annual board meeting to be held on May 21.

"TREASURER'S REPORT"

Mar 31, 1965

Jan 1, 1965-Deposited Old National Bank \$1,116.10
Receipts to Mar 31.

Dues	\$165.50
Sparks	112.00
QST	22.50
2 Mtr Xntr	158.00
Club Sales	105.30
Auction	<u>14.63</u>
	\$577.93

Expenses to Mar 31.

Meetings	\$ 5.60
Sparks	33.92
QST	22.50

+ 577.93
\$1,694.03

Hamfest	30.00
Directory	33.53
Club supplies	3.00
Club equipment	10.00
Fees & Taxes	<u>1.00</u>
	\$1 39.55

Deposited Old National Bank \$1,554.48

Clifford McGuyer, W9DGA, Treasurer.

"AMATEUR RADIO AUXILIARY NEWS"

By Dorothy McGuyer

The ARA held its annual Founders Day Dinner April 10th at the Gresham Home. This highlight was well attended with husbands as guests. It was a covered dish event with Betty Miller Chairman, assisted by Dorothy McGuyer. Each member brought a covered dish with the club furnishing chicken, deliciously fried by Betty. The Easter theme was carried out with the OM's receiving call letter pencils and the KYL's miniature Easter baskets. Additional favor treats were furnished by Betty and Anna Mary Fink. Mary Wurtz reviewed the club's early history which brought many chuckles and much reminiscing. Charter members include Ruth Schoettlin, Helen Cox, Jeannette Covert, Mary Wurtz and Dorothy McGuyer. Entertainment was Bingo with Mary Wurtz and Dorothy Green in charge. Prizes were attractively decorated chocolate Easter eggs. The occasion was indeed another of our enjoyable evenings.

One of our former charter members, Dorothy Barnett, now residing in Decatur, Illinois visited Evansville during the holidays. Dorothy and Ralph have developed a most interesting and worth while hobby - antique collecting.

"MORE GOOD HAM GEAR"

Eico "GDO"	\$25.00
Eico Transmitter	49.50
6N2 Transmitter	99.50
Gonset Linear - New - \$60 off	
National NC-303- Like new	275.00
Scope 2" Miniature size	30.00
HG-10 Heath VFO	30.00
National NC-121	115.00
Novice Transmitter Kit	29.95
Hallcrafters S-85	79.50
National NC-57 Receiver	59.50
Eico Modulator	44.95
Tecraft 6 meter transmitter	45.00
Tecraft 6 Meter Converter	35.00
Geloso Transmitter	199.50
B & W 5100 Transmitter	199.50
Johnson Viking	125.00
Heath Q-Multiplier	7.50

The new model transceivers are starting to arrive. Watch for the new Eico!!.

CASTRUP'S, 1014 West Franklin St, Evansville, Indiana.

"THE PRESIDENTS CORNER"

By K9PMJ

The results are in from the Auction meeting in March. It was the largest and most successful auction to date. More bargains, big crowd, better prices and all in all, if you missed this one - you missed the best. One young fellow bid 50¢ on a 5¢ item and our honest "auctioneer Humpy" said son, "take this home free and be more careful bidding". Hi!

Your Generator Committee has been working hard and has all the facts ready for your consideration April 29. Come to the meeting and decide what unit you want so we can be prepared for Field Day, Emergencies, transmitter hunts and etc.

A few Directories have not been called for by regular members so come and claim one. They are free to members.

More FM units are appearing daily on 146.94 mc and this frequency is a huge success. Ray, our "EC" is planning our first test during "Armed Forces Day" parade and with all units on the same frequency, same polarization, same power, no tuning, they are the answer to local communication. Sure hope more are available soon, so all can share in the fun.

"TARS APRIL MEETING"

The regular meeting of TARS for April will be held Thursday, April 29 at the "Lighthouse For The Blind" at the corner of Second Avenue and Virginia Streets. The meeting will start promptly at 7:30 PM EST.

The speaker for the evening will be "Charles Hargis, K9TQG" and his subject will be "Miniaturizing Integrated Circuits". Charles is a Co-Op Student at Evansville College and Huntsville, Alabama. This is a paper prepared for his school work and is reported to be very interesting. Then don't forget "COFFEE AND DONUTS".

"NEW TARS MEMBER"

Jay Ramsey, K9BLM was voted to receive the benefits of TARS membership. Jay lives PO Box 24, Newburg, Indiana. If you hear Jay on the air or meet him at a club meeting be sure to make him welcome. It is our pleasure to have you as a member Jay. He uses an HT-37, EX-111, Warrior on all bands. Jay also works six motors.

"THANKS SAM"

Thanks to Sam Arthur W4GJXK we now have a new meeting place and we anticipate it to be permanent. It is the Lighthouse for the blind, 2nd Ave & Va St. Thanks again Sam.

"NEWS FROM JOE MADDOX WALRAY"

We have had a rough winter down here, and that doesn't go good with my condition, but the green is showing now and maybe I can get out and do a little fishing. I talk to W9SJN on occasions and conditions have always been perfect. Also have had QSO's with one or two others up there. Some fellow who works in a funeral home and one novice. Haven't put up my beam yet, but will get to it this summer. DX is coming in fine now. Am the only Ham in this county. Did train one Novice but he has gone off to College and forgotten about it. Am working with another boy, but he is a little slow. Notice old "Humpy" is sounding off selling goodies at the meeting the 25th. Macon Georgia is the same size as Evansville but they don't have a club, so I suppose I will have to organize a one-man affair down here. Regards, Joe Ex- K9GON.

"FIELD DAY 1965"

The ARRL Field Day will be held on the week end of June 26 and 27 at the same location as last year. Ray Miller, W90G "EC" is the Field Day Chairman and promises another top notch Field Day as last year. Make your plans early to attend and help Ray.

"JACK YOUNG HANFEST CHAIRMAN"

Jack young will head up the Hanfest Committee this year. The date is the last Sunday in August. It will again be held at 8800 VALLEY. Co-chairmen include Ray Miller, Merrin Johnson and Al Greto. Another big affair is planned.

"TARS - Q - TEST"

The following quiz is just for your own benefit. Write answers on back of page. If time permits after meeting answers will be discussed.

1. What is the maximum penalty for a violation of the Rules and Regulations of the Federal Communications Commission?
2. On what frequency bands may the holder of a Novice class license operate an Amateur Radio Station?
3. What information is required to be entered on the log of an Amateur radio log?
4. How long must the log of an amateur radio station be preserved?
5. Under what conditions may the Amateur Novice class license be renewed?
6. What are the Rules and Regulations regarding purity and stability of emissions?
7. Under what circumstances may a ham station be operated by a person without license?



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Clifford C McGuyer, W9DGA PP, Editor. 476 7483

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Emergency Coordinator, Ray Miller, W9OG PP 476 1963

MAY MEETING, THURSDAY, MAY 27.



Return Requested.
TRI-STATE SPARKS
Tri-State Amateur Radio Society, Inc
Clifford C McGuyer, W9DGA PP, Editor
2900 East Oak Street
Evansville, Indiana. 47714.

Clifford McGuyer
2900 E. Oak St.
Evansville, Indiana

L9DGA

BIG TRANSISTOR MEETING
Thursday May 27. At the
"Lighthouse", 2nd Ave and Va Sta.

REMARKS OF IVAN H. LOUCKS
CHIEF, AMATEUR AND CITIZENS RADIO DIVISION
FEDERAL COMMUNICATIONS COMMISSION
AT THE
NEW ENGLAND DIVISION ARRL CONVENTION
SWAMPSCOTT, MASS. APRIL 24 - 25, 1965

Several months ago, in fact in October of 1963, I had occasion to speak to an assemblage of my fellow "hams" and old-timers at a meeting of the Quarter Century Wireless Assn in New York City. In that talk, as an active amateur also representing the FCC, I pointed out that it is the duty of the Commission to regulate all radio services in the US, to license stations and to provide them with frequencies on which to operate, on the basis of its findings to the public interest, convenience and necessity involved in the operation of such stations. In that talk I also mentioned that many persons seem to confuse their own personal interests or convenience with that of the public at large. I gave as an example the small but vocal minority within the Citizens Radio Service whose only purpose in that service seems to be to use it as a plaything, and who patently disregard the needs of others for a cheap and easy means of transmitting necessary communications by radio. Furthermore, I pointed out that this fatal attitude seems, from my point of view, to be creeping ever into the Amateur Radio Service. Unfortunately, nothing has happened since to change my mind.

As I have also previously pointed out, the justification for the very existence of the Amateur Radio Service is contained in five basic principles, which are so well expressed in Section 97.1 of the Commission's rules that I will now read them to you. I quote:

"(a) Recognition and enhancement of the value of the amateur service to the public as a voluntary non-commercial communication service, particularly with respect to providing emergency communications.

"(b) Continuation and extension of the amateurs proven ability to contribute to the advancement of the radio art.

"(c) Encouragement and improvement of the Amateur Radio Service through rules which provide for advancing skills in both the communication and technical phases of the art.

"(d) Expansion of the existing reservoir within the Amateur Radio Service of trained operators, technicians, and electronic experts.

"(e) Continuation and extension of the Amateur's unique ability to enhance international good will."

My previous discussion of the first of these principles, that providing communication facilities in emergencies, has been so widely printed, quoted and misquoted, cussed and

discussed, that it needs no repetition. Suffice to say that I am aware of the valuable public service which has been rendered by many amateur operators and stations in emergencies; from Florida hurricanes and mid-west tornadoes to Alaska earthquakes, from Mississippi River and West Coast floods to explosions or fires which render normal communications facilities inadequate. The amateurs who have so ably assisted in these cases deserved our heartiest and sincerest praise. They were prepared and have done their share in proving the worth of the Amateur Radio Service. Although many of us may never have occasion to provide "emergency communications", as such, yet we must all do our share if we want the Amateur Radio Service to hold its position (and its frequencies) in the world of today. We cannot afford to sit back and "let George do it." Let us look at another of the points in the Basis and Purpose of amateur radio to see what else we can possibly do to help justify the service. If we qualify under only one we are perhaps doing our share; at least we are not simply going along for the ride.

Paragraph (c) of the rule section which I have just quoted emphasizes the promotion of advancing skills in both the communication and technical phases of the art of means of these rules. This, of course, contemplates that the amateurs (not necessarily all amateurs) are expected to advance their operating and technical skills and abilities at least in step with the general advancements in the radio art. The Commission, it says, is expected to make rules which will promote those advancements. This means, therefore, that the Commission should provide, by rules, an incentive for amateurs to improve their skills, and this brings us to the thought uppermost in your minds, namely, the "Incentive Licensing" proposals. I will leave it to others to discuss the pros and cons of the various parts of the Commission's proposal in its Notice of Proposed Rule Making known as Docket No. 15928. I would like to spend the remainder of the time allotted to me here today to discuss the "why" and not the "how" of the proposal.

If I can remember correctly, back in the early 1920's when I was first licensed as a radio amateur, there were three classes of amateur licenses, and each had its special limitations or special operating privileges. At the bottom of the ladder, in the position now held by our Conditional Class license, was the Amateur Second Class, later called the Temporary Amateur. Telephony was permitted under this license only in the 175, 85 and 5-meter phone bands. Next on the ladder was the Amateur First Class (next page)

later known only as the Amateur Class, which occupied the spot now held by the General Class. This also had limitations as to which phone bands could be used, it was necessary to pass a special examination and obtain an endorsement granting unlimited phone privileges before you could operate in all of the phone bands. The unlimited phone privileges were also granted, of course, to holders of the Amateur Extra First Class license. This license, like the Amateur Extra Class of more recent time, was primarily a prestige license with few holders because it carried no special operating privileges.

In the early 1930's, under the Federal Radio Commission, the amateur licenses were renamed but retained essentially the same operating privileges, except that the Amateur Extra First Class dropped from the scene. The Temporary Amateur became the Class C, the Amateur Class became the Class B, and the Amateur Class with phone endorsement became the Class A. The Amateur Extra First Class licenses, as they expired, were also renewed as Class A. As you all know, the Classes A, B, and C licenses were renamed as the Advanced, General, and Conditional Classes in the early 1950's, when the new Novice, Technician, and Amateur Extra Classes were established. So, let us see what has happened to the examinations for these licenses - the degree of required operating and technical competence, if you please.

The old Amateur Second Class and the Temporary Amateur Class licenses were obtained on the basis of a certification by the prospective amateur that he was familiar with the federal and international regulations governing the operation of amateur stations and could copy international Morse code at the speed of ten words per minute. This became the "mail order" examination in the days of the Class C license, and has continued as such to the present time as the Conditional Class, but the scope of the examination has been progressively changed. The required code speed has been raised to thirteen words per minute, and the written examination now includes many technical as well as regulatory matters, to determine the applicant's knowledge of the essentials of good operating practice.

The old Amateur Class license which became the Class B and is now the General Class, was the lowest class of license which could be obtained on the basis of an examination given by a government Radio Inspector. Of course, it still is, with the exception of special cases of Technician Class examinations. It may be noted that the scope of the present day General, Conditional and Technician Class examinations is the same. The examinations are different, however, depending on whether

the examination is "mail order" or Commission supervised.

This brings me to the old Amateur Class license with the special phone endorsement, which became the Class A license and then the Advanced Class. In its day, the written examination for that phone endorsement was a tough one, but we would now consider it elementary. Similarly, the Class A examination included the advanced radiotelegraph and radiotelephone practice and theory of its day, which we would consider median at the present time. It was for that reason the examinations for the Advanced, General, Conditional and Technician Classes of licenses were all combined in the mid-1950's, and the issuance of new Advanced Class licenses was discontinued. These examinations have been up-graded from time to time since then, of course, but they are still considered as establishing only minimum qualifications for regular and continued operation in the amateur bands. The only examination that calls for more than what are considered minimum qualifications, is that of the Amateur Extra Class. This, as you know, calls for a code test at twenty words per minute and includes a moderately tough technical examination. I will have more to say later on what I think are the reasons why so few have taken this examination.

Thirteen years ago, in 1952, there were only approximately 115,000 licensed amateur operators in the US and its possessions. Today there are approximately 270,000 - the number has more than doubled. Thirteen years ago, also, the present classes of amateur licenses were set up. Let us see what has happened in the meantime. Here are the statistics from a recent count by the Commission's computer of the licenses outstanding and valid in the contiguous US: Amateur Extra Class 3,683; Advanced Class 39,928; General Class 101,217; Conditional Class 40,529; Technician Class 58,546; Novice Class 13,913.

Please note these statistics. Out of 252,000 licensed amateurs here in what was once called the continental US, less than 3700 held Amateur Extra Class licenses. The reason for this small number, I think, are perfectly obvious. First, of course, is the fact that other than having a fancy piece of "wallpaper" to attest to the fact, there is no present advantage to holding that license. There is currently no special privilege accorded the holder of this license as there once was, in varying degrees, to the holders of all of the higher grades of licenses. To be brief, there is no incentive to prove your knowledge and ability, even though you could pass the examination. Among the 190,000 present holders of Advanced, General, and Conditional Class licenses, there must be at least 50,000 who could qualify (next page)

for the Extra Class license if they so desired.

Second on my list of reasons for the low number of Amateur Extra Class license holders, in the opinion of a lot of us, is the regrettable fact that many of our amateurs have somehow or other qualified for a General or Conditional Class license and have then stopped learning amateur theory or practice and have lost their code ability by disuse. True, many of our would-be amateurs study the Handbook and other reference books in addition to the License Manual, and thus, come to a good understanding of radio theory and techniques, but many only study the License Manual, pass the examination, and then quit. They buy factory-assembled equipment and if anything goes wrong they call in the service man, or ship it back to the factory. How much help do you think these amateurs will be in a time of emergency when amateur radio is needed, the equipment fails for some reason, and the service man is somewhere else? As far as that goes, how much help do you think the amateur will be in that emergency if he has spent all of his on-the-air time rag chewing and knows neither proper message handling nor proper circuit or net discipline.

To go back to that paragraph (c) of the Basis and Purpose of Amateur Radio, the Commission has decided that rules changes are now required to better promote advancing skills in both the communication and technical phases of the radio art on the part of a higher percentage of the amateur body. To accomplish this, a return will be made to the basic concept of amateur licensing which proved itself so well in the past but which was unfortunately overlooked in the early 1950's. Under that

concept, each class of license will confer distinct and definite operating privileges, and the higher classes of licenses will confer more, or at least more desirable, operating privileges than the lower ones. Thus, an incentive will be presented to those amateurs who have not obtained the highest class of license, either to prove that they are now qualified or to proceed to obtain those qualifications.

This, in brief, is the reasoning behind the recent release by the Commission of its "incentive licensing" proposal, Docket No. 15928. I suspect that you have all heard of it and, if that is all, that you have probably heard a lot of misinformation. Before you form your judgements, I beg of you, wait until you have read the entire Notice and have had time to study it. No one expects you to agree with everything in that proposal. In fact, I don't agree with every detail of it, myself. Just bear in mind that it is a Notice of Proposed Rule Making, not changes in the rules to be immediately put into effect. It is composite of something like eleven different sets of ideas on the general subject which have been filed with the Commission as petitions requesting rule making. If you have ideas that you feel would better accomplish the desired objective you should file them with the Commission before the closing date of this Docket, which is July 15.

Before I close, I would like to emphasize something that has often been said by myself and many others of the Commission's staff. The Commission is not running a popularity contest on this or any other Notice of Proposed Rule Making which it releases. It is trying to obtain facts and (next page)

"GET READY FOR FIELD DAY

Hallcrafters Receiver S-38-B	\$ 25.00
Hallcrafters Receiver S-85	79.50
National Receiver NC-303	275.00
National NC-57 Receiver	59.50
Waterman Scope	35.00
Johnson Viking Transmitter	125.00
Knight Transmitter	50.00
Johnson Valiant Transmitter	250.00
Johnson Viking VFO	39.50
Heath HG-10 VFO	30.00
Eico 90 Watt Transmitter	69.50
Eico 60 Watt Transmitter	49.50
Eico Modulator - 50 watts -	44.95
Coming Soon !!! NEW Eico SSB Kit	179.50
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ideas which will help it make rules or change the rules so as to best serve the public interest, convenience, and necessity. If you disagree with the reasoning of the Commission, give it the benefit of your thinking. A clear, concise, well thought out and presented explanation of why you think a given proposal is not good is worth a thousand postal cards which simply say "I don't like it." On the other hand, if you agree with the Commission's proposal or any part of it, a word to that effect and your reasons for agreeing will also be helpful. One of the main reasons for the issuance of such notices of proposed rule making is to give the Commission the opportunity to draw on the thinking and the experiences of the people most affected, to pick the brains of the experts in that particular field so that it can use their ideas to do its job better. Unfortunately, we find that those who agree with any proposal seldom take the pains to let us know. This frequently has the effect, I'm afraid, of leaving the Commission and its staff feeling that they must have been numbskulls to have come out with the idea in the first place.

In closing, I would like to thank you for your patience in listening to me ramble. It has been a pleasure as well as an occasional headache working with the amateur fraternity on the Commission's side of the fence, but that is about to come to an end. Since I am planning to retire from the Commission's staff before July first, you can see that I will soon be just another amateur on the outside looking in. By the time the issues in Docket NO. 15928 are decided and in effect someone else will have taken my place while I will then be just another

call in the book. I fully intend to keep up with the advances in amateur radio and to qualify for an Extra Class license, regardless of that decision. I'll see you on the air from some new QTH in the not too distant future if I have the good fortune to stay on this old earth a few years longer.

73 and 30

"THE PRESIDENTS CORNER"

By K9PNJ

The Club is running smoothly and preparations are under way for the summer fun. Our GENERATOR has been delivered and checked out. It is everything we expected of it and to start the summer activities, we plan a hidden transmitter hunt using the new GENERATOR. Elsewhere in SPARKS will be the details of time, place, frequencies, etc. Please participate and perhaps we can revive interest in mobile activities. All you need is a receiver and a loop. Plans are still being formulated for the SEMINARS to be held to increase our knowledge of electronics so we may all qualify for the new class of license, sure to come from FCC. We have the qualified persons to present this material, but what we need is ideas from you. What subject would you like discussed? Present your ideas to W9DGA or myself and we will do the rest.

Once again it is our sad task to note the passing of a good friend: John R (Bob) Brill W0DSV Ex K9JUN. Bob has been living in St Louis but was formerly well known here especially on the Trade Wind Net. Bob is survived by his wife Bess. He also was an avid hunter.

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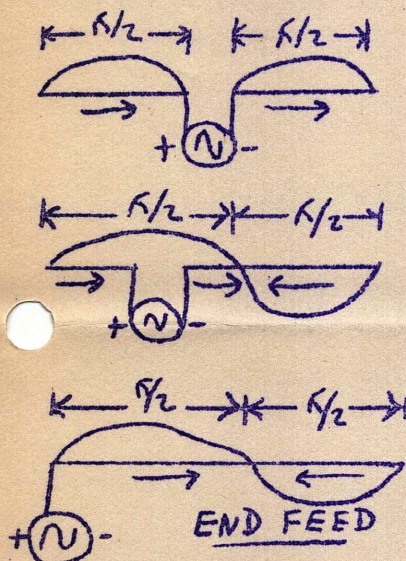
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"LONG WIRE RADIATORS"

By K9QWV

With many hams moving to suburban areas where there is more room for stringing wire, there has been a revival of interest in long wire antennas. Strictly speaking, any antenna over one-half wave length is a long wire antenna; but there are long wire antennas and long wire antennas. And since we are basically interested in harmonic long wires that will operate on more than one frequency, let's see how they get that way. To have an harmonic antenna, currents in adjacent half wave sections must be out of phase. Phase relationship is determined by the feed point of the antenna. If the antenna is fed at a current node; adjacent sections will be in phase. If the antenna is fed at a current loop; adjacent half wave sections will be out of phase.

Another, and probably the most common method of feeding is the end feed. Long wires of $1\frac{1}{2}$, $2\frac{1}{2}$, etc., half-wave lengths, can be center feed. Another interesting and important aspect of the long wire antenna is its varying radiation pattern. A long wire one half wave length at the operating frequency, radiates in a direction broadside to the antenna,



but as the operating frequency increases in relation to the fundamental half wave frequency of the antenna, the radiation pattern approaches the direction of the antenna. As an example: an antenna cut one half wave in length at 75 meters and stretched in a north-south direction, when operated on 75 meters, will radiate best in an east-west direction. The same antenna when operated on 10 meters will radiate best in a north-south direction.

Long wires offer certain advantages. They are not compromise antennas when operated on different frequencies, provided that a suitable matching device is inserted between the antenna and transmitter. They are not the world beaters though, that some would have you believe. The gain is not startling (in relation to an ordinary half wave dipole) until the number of wavelengths is about six. The practical limit for maximum gain is reached at twelve wave lengths.

Since the end effect introduced by insulators at the antenna ends is not as great in a long wire (no center insulator as in a dipole) a different formula must be used in determining its length. Let H equal the number of half waves on the antenna.

$$LENGTH = \frac{492 (H - 0.05)}{F_{mc}}$$

One Message ACCURATELY handled is worth a hundred containing errors.

Thanks to Charles Hargis, K9TQ4 who gave an excellent paper on "Microelectronics" at the last meeting. Everyone enjoyed it very much.

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Radio

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Weller Soldering Guns and Parts
Coaxial Cables

"TWO NEW TARS MEMBERS"

At the Board of Directors meeting held on Tuesday May 11 two persons was voted to receive membership in TARS. They were Bryan L Hartke, A9LDD, 6911 Lincoln Avenue and Dan Mitchell, WH9MWQ, 515 Audubon Drive, both of Evansville. If you hear Bryan or Dan on the air, or meet them at a club meeting be sure to make them welcome. It is our pleasure to have the two young students as members of TARS.

"FIELD DAY 1965"

By W900, PP, MO.

In view of the enthusiasm expressed by those participating in last year's Field Day at the Posey County site, the same plans are being made for this year with anticipation of a greater attendance. The Board of Directors authorized certain expenditures which will permit those who can work at setting up and dismantling antennas, etc., and assist with the operating of equipment during the contest period to have food furnished. Plans are made for free soft drinks, coffee and iced tea all the time and hamburgers with some trimmings at noon on Saturday and Sunday; bacon and eggs for breakfast Sunday. Saturday evening all are invited to a basket picnic.

However, in order to have some ideas as to the quantity of food, you should advise either the President or the Emergency Coordinator.

We will be operating with a new GENERATOR but since the club's transmitter and receiver has been sold we will appreciate a loan from one of the members of an all band, all mode TRANSCEIVER which can be limited in power to 150 watts. The June meeting of TARS will be a "FIELD DAY SPECIAL" including all films of past Field Days and pointers on operating in the Field Day. See June QST for details.

"TRANSMITTER HUNT"

TARS will hold a transmitter hunt, Sunday, July 11, 1965. Frequencies will be 29.0 and 50.4 mc. Meet at 2 PM on the parking lot of Evansville College, the new lot north of Walnut Street. Winner will be determined by mileage, and their will be a time limit. Refreshments will be served. The new club GENERATOR will be used. The winner will be permitted to stage the next Transmitter Hunt.

FOR SALE. Mesely TA33 Jr Beam. 10-15-20 meters. Estate of K9TWD. \$50. See Chuck Johnson, K9PAR.

New address of Dr John Alexander, W9YZO is Wedgwood Apts, 1127 Lincoln Ave. Of Wilbur Weisling, W9OVB, 4709 Ridge Knoll Drive.

FIELD DAY, June 26 and 27, Sat and Sunday.

"TARS MAY MEETING"

The regular May meeting of the Tri-State Amateur Radio Society will be held at the "Lighthouse" at Second Avenue and Virginia St. The meeting will start promptly at 7:30 PM. Date is Thursday, May 27, 1965.

"K9JSK TO BE SPEAKER"

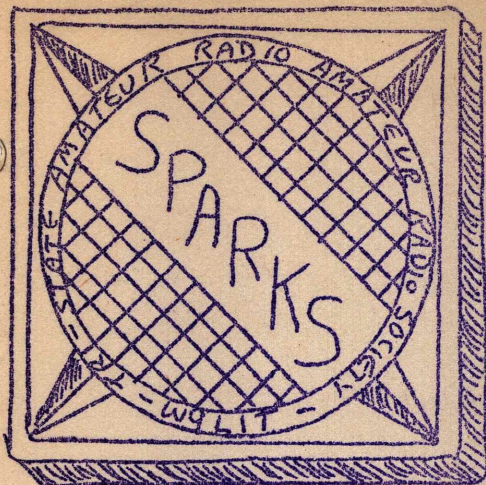
The program for the evening will be "ABC's of Transistors and other Semi-Conductors." The speaker will be Paul Wurts, K9JSK, owner and operator of the SUPREME RADIO AND TV. Paul has held a service contract with General Electric Co since 1957, specializing in the service of Transistor radios, phones and transistor televisions sets. Paul comes daily into contact with all the newest electronic devices. Modern low cost transistors that are efficient up to 150 mc offer the amateur an opportunity to extend his technical knowledge and skills by building converters, and low powered transmitters, etc. See you there.

"CODE PRACTICE"

W900 will have code practice on ten meters immediately following the local Net each Tuesday evening. For additional practice use W1AW on 1805, 3555, 7080 or 14,200 Kc each evening at 2330 and 0130 GMT. About ten minutes of practice is sent at each speed. On Sunday, Monday, Wednesday and Friday (GMT dates) from 0130 to 0220 GMT speeds are 5, 7½, 10 and 13 WPM. While on Tuesday, Thursday and Saturday (GMT dates) from 0130 to 0220, speeds are 15, 20, 25, 30 and 25 wpm. Daily from 2330 to 2400 GMT finds speeds of 10, 13 and 15 WPM used. This should just about cover any degree of speed you desire. Normally W1AW has a very good signal, try the listed frequencies for the one that is the strongest at your location. Good copying.

"TARS-O-TEST"

1. What is the maximum percentage of modulation permitted an amateur telephone station?
2. Under what circumstances may an amateur station be used by a person not holding license?
3. At what intervals must an amateur station be identified by the transmission of its call?
4. May any transmission be made without identification of the station?
5. Under what conditions is notice of portable or mobile operation required to be given, and to who in each case?
6. What is the relationship between a cycle, a kilocycle and a megacycle. A Gigacycle?
7. What is meant by modulation?
8. What is the purpose of a rectifier?



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JUNE 1965

Amateur Radio W9LIT

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Clifford C McGuyer, W9DGA, PP, Editor. 476 7483

Herb Muth, W9NZC, Advertising Mgr. 423 0373

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Vice President, W9BKJ	853 8496
Secretary, W9NZC	423 0373
Treasurer, W9DGA PP	476 7483

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W9GFS, PP	476 4825
K9PAR	424 7028
K9STX, PP	425 3841

Emergency Coordinator, Ray Miller, W9OG PP 476 1963

June Meeting, Thursday, June 24.

Return Requested.
Tri-State Amateur Radio Society, Inc
2900 East Oak Street
Evansville, Indiana. 47714.



FIELD DAY June 26 and 27.

Clifford McGuyer
2900 E. Oak St.
Evansville, Indiana

L9DGA

== "TARS 1965 FIELD DAY" ==

By W90G

DATE - From about 10 a.m. Saturday, June 26 to 4:30 p.m. June 27.

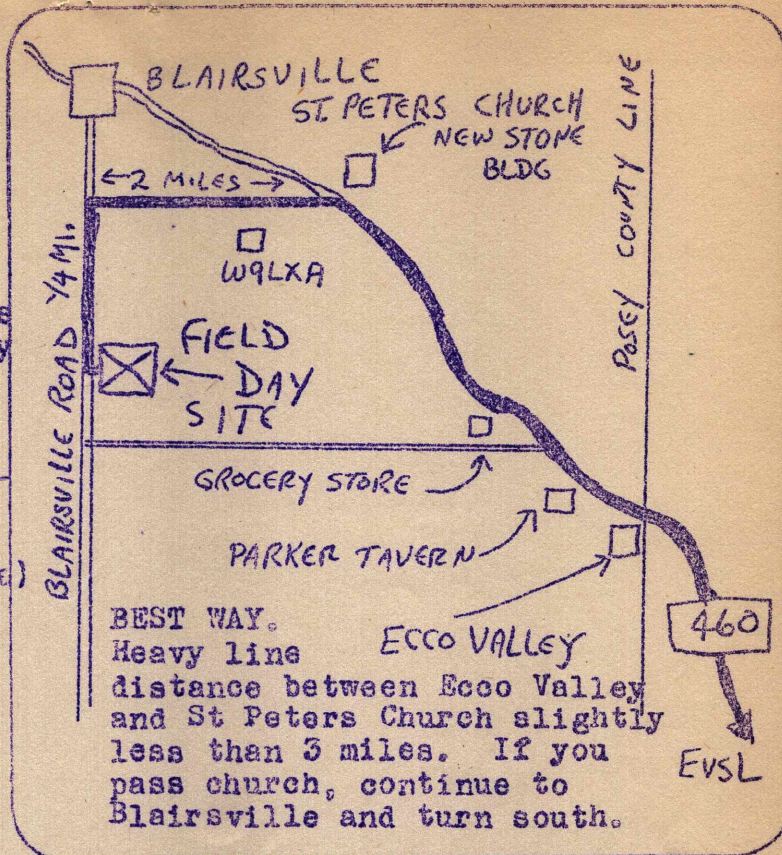
PLACE - Same as last year, Robinson Conservation Club, several miles west of Vanderburgh-Posey County Line and Highway 460. (Not on highway) See sketch.

CONVENIENCES - Same as at home. Cold running water. (at pump) Comfortable places to rest and sleep. (on cut stubble field) Cold soft drinks and good coffee (for sure) Hamburgers, bacon and eggs for workers and operators.

RULES - Same as last year.

EQUIPMENTS - Don't know until Saturday morning when some thoughtful member offers and brings transceiver, exciter, receiver and or 100 milliwatt transistor walkie talkie. (or before if member will so advise the E.C. W90G)

If you plan to operate during the night hours or any time and expect to have a place to rest your body, better bring along your own cot and bedding. (Also insect repellant) Saturday evening plan to be with the gang, YL'S and XYL'S and OM'S at a "Basket Picnic". Be prepared to have movies taken of you by a famous photographer. By the way, we will be expecting a much higher field day score.



The Winslow Amateur Radio Society, the Gibson County Amateur Radio Society and the Tri-State Amateur Radio Society will try out a club field day competition. We will send a copy of our field day log to W9FJI who will be the judge. If this contest works out, a rotating plaque will be proposed for future field day competition amongst the southern Indiana Amateur Radio clubs.

73, Ray W90G

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"AMATEUR RADIO AUXILIARY NEWS"

By Dorothy McGuyer

The June meeting was held at the home of Evelyn Galbraith. Plans for assisting TARS at Field Day and Hamfest were made. Saturday evening, June 26th will be a basket picnic for all families of those participating in the Field Day event. The ARA will serve lunch and breakfast to operators and workers.

The attendance prize was won by Anna Mary Fink and hostess prize by Dorothy McGuyer. Our president, Dorothy Smith was in charge of "crazy card bingo" prizes being a white elephant each member brought. This was thoroughly enjoyed and everyone went home happier. Our hostess, Evelyn, supplied us with a delicious snack tray and tastey desert.

Our sincerest get well wishes are extended to Mary Kaye Schoettlin who is a patient at St. Mary's Hospital. Also, our best wishes for a speedy recovery to the mother-in-law of Helen Cox who is also hospitalized.

Our vice president, Betty Miller, is now attending an International Convention of the Daughters of the Nile in Jacksonville, Florida. Betty is a member of the Egyptian Band here and we understand she is having a grand and glorious time. Mary and Paul Wurtz enjoyed themselves while attending a UTC convention in Indianapolis as did Jeannette and Darwin Covert while attending the Indiana

State Chiefs of Police Association in Terre Haute. Congratulations to Darwin on being elected president. Dorothy and Kearnie Smith recently had a nice visit with their daughter and family in Iowa. The Hank Galbraiths are looking forward to a family reunion in Providence, Kentucky.

"THE PRESIDENT'S CORNER"

By K9PNJ

I just received an outline of Hamfest Committee assignments and a program of organization from Jack Young K9LAU, our HAMFEST CHAIRMAN. Jack has taken hold of this very important function of our Club and we can rest assured it is in good hands. Now let us all get behind him and his co-chairman and give our full support. We have a reputation of the best HAMFEST in the mid-west and it is the one chance of the year to eyeball your many friends.

"FIELD DAY"

Also, right on us in FIELD DAY, June 26-27 and Ray Miller, W9OG is planning a whopper. He and his crew are working hard, so come on out and share the fun.

"TRANSMITTER HUNT"

Right after FD will be the HIDDEN
(Cont'd next page)

FIELD DAY BARGAINS

NC-303 National Receiver	\$275.00
GonSet G-211-Nice*	69.50
National NC-57 W/6 meters	59.50
Knight 50 Watt Transmitter	44.50
Johnson Viking Transmitter	125.00
Globe Scout w/6 meters	69.50
Globe Scout Deluxe	115.00
Heath VFO HG-10	30.00
Eico 60 Watt Transmitter	49.50
Heath & Multiplier	7.95
NC-121 National, Regular	159.50 Now 119.95
Cliff Dweller Antenna	75.00
Baam Rotator	39.95
Operators Table Lamp	8.95
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New Issue Call Book	5.00

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President continued.

TRANSMITTER HUNT on July 11, so plan this one too.

"JUNE MEETING"

Bring your lady to the REGULAR MEETING, June 24, when pictures of past FD will be shown, coffee and goodies will be served.

Earl, K9PNJ

"TRANSMITTER HUNT"

TARS will hold a transmitter hunt, Sunday, July 11, 1965. Frequencies will be 29.0 and 50.4 mc. Meet at 2 PM on the parking lot of Evansville College, the new lot north of Walnut Street. Winner will be determined by milage, and there will be a time limit. Refreshments will be served. The new club GENERATOR will be used. The winner will be permitted to stage the next Transmitter Hunt.

FLASH -- FCC ADOPTS RULES FOR ISSUING RECIPROCAL OPERATING PERMITS

Last May the President signed the bill amending the Communications Act so as to permit amateur radio reciprocal operating agreements to be entered into between the U.S.A. and other countries.

The U.S. Department of State notified the embassies of 35 or 40 countries about the provisions of our laws, as amended, making amateur radio reciprocal agreements feasible.

December QST reported the conclusion of the first such agreement with Costa Rica. There also was a recent rumor, unconfirmed as of going to press with this bulletin, that the Dominican Republic had completed an agreement like Costa Rica's. However, all observers have realized that much about the value of the new provisions depended on the practical forms and working arrangements. Good news, now! The FCC regulations have been completed and are announced to put the provisions into practice as amateurs visit our shores.

These FCC reciprocal operating rules for foreign amateurs becomes effective March 29, 1965, applying of course only where other countries are willing to conclude an agreement and provide reasonable reciprocity to visiting amateur operators from the United States. Details of FCC's new provisions appear in April QST. In brief (1) Application by the licensed foreign amateur will be made sixty days in advance on new FCC Form 610-A. (This will be available Mar. 29 from FCC and some U.S. offices overseas). (2) Copies of the home station and operator licenses must be furnished. (3) The address must be given.

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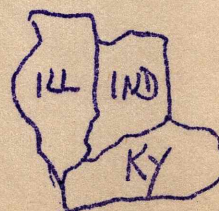
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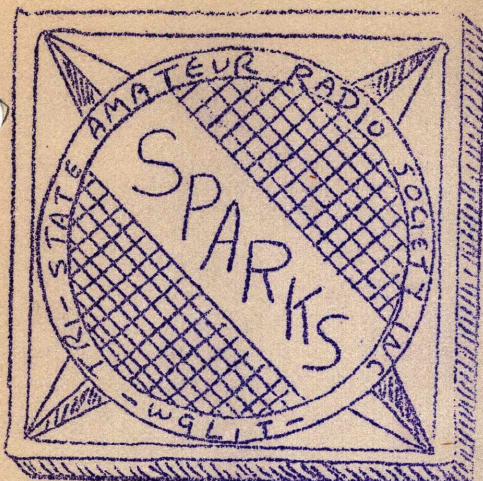
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July Meeting, Thursday, July 29.

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July Meeting, July 29

Clifford McGuyer
2900 E. Oak St.
Evansville, Indiana

L9DGA

"THE PRESIDENT'S CORNER"
By K9PNJ

I just received a call from Jack Young, K9LAU and we knew he was ill and in the hospital, but it seems Providence stepped in the last minute and prevented major surgery. He is recuperating nicely and will be home by the week end.

Jack is out Hamfest Chairman and he called me, worried about his responsibilities of Hamfest Chairman and I assured him everything would work out OK. Kearnie Smith, K9QLB consented to take over as Chairman until Jack is back on his feet. Kearnie has a very tight schedule and we thank him much for helping in this emergency. Kearnie has called a meeting and you will be notified when and where to meet. We have very little time left, so when you are called on to do a job, accept and do it faithfully. It never ceases to amaze me that another Evansville group can put on a "Jamboree", draw 1000 people, and have the success they have. 73, Earl..

"TARS JULY TRANSMITTER HUNT"
By K9JSK and K9PNJ

Our first transmitter hunt of the year just ended and what fun we all had. It started in June when K9JSK and K9PNJ started looking for locations. The Thomas Clark farm on Hogue Road was our

final Choice and they were most gracious hosts, allowing us to erect antennas a week ahead of time, coming and going continually and we thank them very much.

Dorothy and Mary, our XYL's grilled hamburgers for us as Paul and I handled the equipment. The Clarks's pulled corn and dug potatoes for our grill and what a feast we all had.

Our Communicator on 8 meters blew a tube just minutes before air time, after 2 weeks of testing and we were a little late getting started. One week before the Elmac of CD blew a power supply and we borrowed Gonset equipment from Dr Westfall, and it worked fine.

The hunters included W9HAK, W9OG, W9MKZ, W9NZC, W9VZX, Jack Hudson and Louis Winterheimer. They all went the wrong direction in the beginning, but finally worked their way west and the first to find us was the ol' Pro, Robby, W9MKZ. Time was up so we did not use time as a factor, nor did we use the mileage, but the first one home was the winner.

Robby used 23 miles and W9WUH used 18 and the most used was 40 miles by W9HAK.

Cold soft drinks and chips were served and everybody had a grand eyeball QSO. Our thanks to the girls for fixing the food, helping with the antennas and most of all their patience. Robby will hide the Xmtr next time.

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WA9ADU, K9PAR, W9OG Co-Chairmen.

WA9ADU

Prize Procurement, WA9ADU, W9YZO,
W9RDJ, W9OG.

Attendance Prize Drawing, W9JFJ,
K9QLB, W9OVB.

Lay-Out Arrangement.
WA9ADU and W9OVB.

Publicity, K9QWV, W9RDJ, WA9ADU.

Printing, W9JFJ, K9STX.

K9PAR

Contests and Games, K9PAR.

Children's Games, Donna Weber and
Deborah Galbraith.

Children's Ride.
K9LAU (Supply Optr over 21 years).

Exhibits and Displays, K9STX,
K9JCY, WAJFEV.

Soft Drinks- Concessions, ARA.

Red Cross-First Aid, K9LAU.

W9OG

Registration, W9OG, W9AIM, W9DGA.

Mobile/Fixed Stations, W9OG,
W9WUH, WA9FUJ

PA Systems, W9WUH, K9PNJ.

Communication and Liaison, K9CLB.

Dinner and Bingo, ARA.

Grounds and Parking, K9JSK, W9LXA.

Ladies Bingo Prizes. 2-Waste Basket,
Waste Bin, Boudoir, Container W/Lid,
Utility Tub, Scrub Tub, Iron Candle
Holder, Flower in Milk Glass, Metal
Table, Magazine Rack, Casserole,
3-Gourd Planters, Pearl Necklace,
2-Planters, Mirror, Shell Servers,
Egg Dish, Salad Bowl, Clothes Basket
& Left-Over Dishes, 4-place setting
(dishes), 4-place setting (Dishes),
Pitcher, Garden Hose, Plastic Lamp,
Hand Painted Casserole and Modern
Pole Lamp, color tan. Total 28
Bingo Prizes.

"HENDERSON HAMFEST"

The Henderson Amateur Radio Club
will hold its Hamfest Sunday August
8 at the Audubon Raceway Park, at
Henderson, Ky. Talk in frequencies
are 3960, 52.525 and 146.94.

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"TARS 1965 FIELD DAY"
By W9OG, PP.

Another successful TARS Field Day was held at the Robinson Twnshp Conservation Club in Wosey County. Our total score was 2646 with the following breakdown. 80 CW - 51, 75 A3 - 14, 40 CW - 39, 40 A3 - 213, 20 CW - 11, 14 A3 - 88, 15 A3 - 1. The Princeton Club had score of 2412. Their breakdown was 80 A3 - 16, 40 CW - 337, 40 A3 - 18, 20 CW - 5, 15 CW - 1. Score from the Winslow Club is not available as yet. The Michiana Club won the IRCC FD. W9FJI got real newspaper publicity for their Clubs Field Day effort.

"TARS JULY MEETING"

The regular TARS July Meeting will be held Thursday, July 29, at the Light-house, Second avenue and Virginia St. The meeting will start promptly at 730PM.

The program will be a Radio Theory Seminar conducted by W9LXA, K9PNJ, K9JQY, K9JSK and W9DGA. The subjects will range from Power Supplies to Electrical Units. For those desiring a check list test will be give. Make your plans to attend.

"AMATEUR RADIO AUXILIARY NEWS"

By Dorothy McGuyer

The July meeting was held at the home of Ruth Schoettlin with almost 100%

attendance. Hamfest plans were reviewed for all members. Helen Cox won the hostess prize and Ruth Schoettlin the attendance prize. Delicious refreshments were served by the hostess who was assisted by daughters Karen and Ruth Ann.

Evelyn Galbraith, our only absentee was enjoying a vacation with her family including Shiloh National Park, Look Out Mts. and Cumberland Gap. Also relatives in Etowah, Tenn. Your reporter received a card from Henrietta who was very much impressed by the "Smokies". Henrietta is quite a 12yr. old expert at "rum" as several of us discovered during Field Day activities.

Anna Mary and Bob Fink enjoyed attending the Golden Anniversary of International Kiwanis Convention in New York City July 4th through 8th. They were privileged to hear Dr. Norman Vincent Peale, Sen. George Murphy and the Prime Minister of Quebec. Main speaker was Mrs Gul- liedge, President of National Association of Manufacturer's. Over 20,000 persons attended. Entertainers included Alan King, The Rockettes, Kim Sisters and Dick Schawn. Other highlights for the Finks was a big league baseball game and the World's Fair.

Other delighted conventioners were Jeannette and Darwin Covert who attended the Civitan National Convention in Washington, D.C.

"SELECT GEAR"

Eico "720" Transmitter	\$ 69.50
Scout W/6 Meters	69.50
Scout 80 meters thru 10 meters	59.50
6N2 Transmitter - Globe	110.00
S-38 Hallicrafters	25.00
Gonset GR-111	59.50
National NC-300 Receiver, NEW	299.00
NC-303 National Receiver, USED	275.00
Geloso Reciver	199/50
Geloso Transmitter	199.50
HQ-110 Receiver	159.50
HQ-140 Receiver	145.00
Viking Transmitter	125.00
Globe Scout Kit	89.50
Gonset Two meter SSB	299.50

Comming Soon!!!! The New EICO SSB Transceiver. 179.95

CASTRUP'S
1014 West Franklin Street.

TRI-STATE AMATEUR RADIO SOCIETY, INC.

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AUGUST 1965

Amateur Radio W9LIT

Affiliated with the American Radio Relay League and the Indiana Radio Club Council.

Clifford C McGuyer, W9DGA PP, Editor. 476 7483

Herb Muth, W9NZC, Advertising Mgr. 423 0373



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Vice President, W9BKC	853 8496
Secretary, W9NZC	423 0373
Treasurer, W9DGA PP	476 7483

DIRECTORS

W9RDJ PP	476 7601
K9JQY	476 6836
W9LXA	985 3550
W9GFS PP	476 4825
K9PAR	424 7028
K9STX PP	425 3841

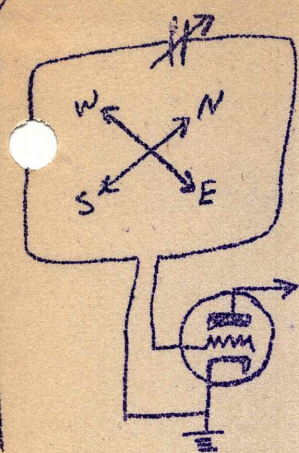
Emergency Coordinator, Ray Miller, W9OG PP 476 1963

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2900 East Oak Street
Evansville, Indiana. 47714.

"HAMFEST"
ECCO VALLEY. Sunday
August 29.

"HOW TO WIN A TRANSMITTER HUNT"

By W9WUH



Having finally won a transmitter hunt after ten years of trying, I feel duty bound to pass along the benefits of my winning experiences to any and all who might aspire to follow in my footsteps.

There are, I suppose, many ways to win a transmitter hunt so bear in mind this is just one of them. Lets start with equipment. In the catagory of equipment there are three essentials. A loop antenna, a receiver and a vehicle capable of transporting them from one county line to the other numerous lines. Now there need be nothing special about the vehicle, just so it can move from fix-point "A" to Fix-point "B" with dispatch and efficiency. The distances involved

preclude the use of shanks-mare or skateboards to all except the most persis-tant non-conformists. Bicycles are permitted for those like you and me who are young and athletic, however tandems are recommended for this mode of trans- portation due to the necessity for loop manipulation while in motion. Do re- member that in this instance the second operator becomes the first operator since the first operator must steer.

Those using non-convertable type automobiles will find it very convient to cut a small hole (sixteen to eighteen inches in diameter, depending on the size of the loop used) in the roof of the car. This is known as a loophole. Now in my case I used a 1962 compact stationwagon with slick tires and noisy valve lifters. As for the receiver, I think any receiver capbale of receiving the transmitted signal is adequate. I borrowed one from a rich friend, K9HCE, It was a rel gone-set, a CD model 111 with knobs all over. I didn't borrow it because I was too dumb to build one or because I was too chinchy to buy a good one of my own but because my six meter receiver was a cheap regeneration job and I didn't know how to build a good receiver. The loop used was one built for ten meters some years ago that didn't work. This loop was cut down to six meter dimensions and with careful construction techniques I was able to maintain its orginial characteristics.

I made arrangements with SWL Jack Hudson, to fly co-pilot for me, but at the last minute he chickened out, claiming visitors from Chicago. Of course he didn't know at the time he was passing up a winner. But all was not lost since

"HAMFEST SPECIALS"

T-60 Knight	\$49.50
Heath VFO	15.00
Simpson 260 - As is -	10.00
Eico 70 Watt Amplifier, Stero	75.00
NC-270 National Receiver	199.00
NC-57 National Reciever	59.50
NC-121 National Receiver	114.95
Knight 50 Watt Transmitter	39.95
Globe Scout "New Kit"	89.95
Gonsat Receiver	59.50
New!!! Ham Rotator	39.95
Hygain Vertical 10-80 meters	16.95
Hammarlund Keyer	39.95
SB-33 SSB Transceiver	295.00
Viking I Transmitter	125.00
Johnson 275 Watt Matchbox	45.00
HT-40 Transmitter	79.50
New Callbook will be here by Hamfest time (we hope)	
Same for the Eico SSB. Attend Hamfest, Aug 29, you may win \$10.00	
Certificate on the Eico SSB. "CASTRUP'S, 1014 W Franklin Street.	

Jack's partner, Skip Bradford, W9HAK (the newest amateur Rextra in town) said he would go in Jack's place. So we loaded everything in the little blue wagon and headed for the north parking lot at the college. Incidentally, since they built carson center over there, the north parking lot is south of the north parking lot. No one was there when we arrived at 1:50 PM, but soon they started to trickle in. First to arrive was K9JSK, Paul and Mary Wurtz. Mary was driving but she let Paul set behind the wheel to steer and work the pedals. They kept coming on in, K9PNJ, W9VZX, W9NZC and SWL Winterheimer. After recording the speedometer readings and making mental notes on the direction all the loops were facing, skip and I followed the pack north out of the parking lot. We traveled straight on out weinbach and oak hill road and through McCutchenville with the signal on six meters growing stronger and stronger. We never did find out for sure why the S-Meter hung on S-1 all the way out there, but for some reason it worked OK when we switched the meter selector switch into the receiver position, so we left it that way for the rest of the hunt.

Anyhow we didn't worry too much about this little problem because about this time the "Special" 6AU6 that I had loaned Ray, W9OC for the ten meter transmitter did its job and he lost his "Grid Drive" on the ten meter job. This narrowed the field of competition down quite a bit. We pulled up behind Ronnie, W9VZX on the Boonville-NewHarmony Road near Browning Road and watched his loop for a while. But that Ronnie is real sneaky and we wound up on a dead end road. About this time we heard Robbie say over the air, "Here comes Ronie in the back door".

At this point we thought all was lost, so we connected the speedometer back up and pulled on in to the hidden transmitter site. As it turns out ~~Ronnie~~ must have reconnected his speedometer too soon, because Skip and I had "13.1" miles and Ronnie had "15.3" miles registered. I don't know what to do about skip. His head sets way over on his right shoulder now from leaning out the window watching the loop. My little blue wagon ain't got no loopholes...

"VHF Picnic" By W9WUH.

The annual VHF picnic sponsored by the Wabash Valley Amateur Radio Club was held Sunday July 25th, at Turkey Run State Park. The high point of the day was the presentation of outstanding service awards by the US Air Force to Carl and Amy Baldwin, K9RMI and K9YIC as husband and wife team that logged 76 hours of operation during the Palm Sunday Tornadoes in northern Indiana. The award (next Page)

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"BEST OF LUCK TO TARS ON THE EIGHTEENTH ANNUAL HAMFEST"

certificates were presented by Capt Ripson of the Air Force Communications Service, Scott Field, Illinois. Carl and Amy who are members of the "Air Force Military Amateur Radio Service" also received a gold plated microphone presented by the "Air Force".

Attendance at the Picnic appeared to be equal to that of two years ago. Many said they thought the attendance was less than last years gathering. Personally I saw no one that I knew from Evansville but I'm sure other Evansville hams were present. Ralph Roales, W9RVM from Vincennes was there but I did not see him. Jim Russelberg, K9JQN formerly an Evansvillian, now a Postal Service officer in Terre Haute was there with his live-wire harmonica.

The ladies Bingo game ran somewhat late and the attendance drawing was delayed until about 3:00PM. Everyone enjoyed the event, especially those who won the Heathkit "Twoer", the Vacuum tube voltmeter kit, the Tunnel Diode Dipper and the combination six and two meter beam. "Russ" W9GWL, the Griffin "Kilowatt" won a copy of "So you want to be a Ham"..and he does!!!

Many of those present said they would be in attendance at the Evansville Hamfest on August 29th..Frank Anderson, W9BGF who is a "Civilian Coordinator" for the "Navy MARS" expressed a desire to expand "Navy MARS" activities in the Evansville Area and will be at the Evansville Hamfest and available to any and all who are interested in the "Navy MARS" program...Come on "TARS" Go Go Navy.

"THE PRESIDENTS CORNER" By K9PNJ

The stage is all set and we are just about ready for Act 1, our 18th annual HAMFEST on Sunday August 29. May I take this opportunity to thank our Chairman, Co-Chairman and all workers involved for the splendid co-operation. It sure makes me feel good and proud to be a member of TARS and see this unselfish attitude of all members. This should be a funfest for all so come early and stay late and meet your friends. Elsewhere in SPARKS is the third hidden transmitter hunt of the year, Planned for you by John W9WUH. Watch for it. Also in the planning stage is the big "FOUNDERS DAY DINNER" in September and Chairman, Prof Dr Charles Robertson (Robbie W9MKZ) is planning a big one.

"TRANSMITTER HUNT"

The third transmitter hunt of the year will be put on by John Harkins, W9WUH, Sunday September 5 starting at 2 PM starting from the Evansville College North Parking Lot. Frequencies are 29.0 Mc and 50.4 Mc. Come out and share the fun.

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"Best Wishes for a successful Hamfest from the folks at Ohio Valley Snd."

"INDIANA MARS A CHAMPION"

The Indiana MARS organization headed by W9JYO of Jeffersonville, Indiana has completed two years of 100 percent participation and reporting. The National Record formerly was held by the state of Michigan MARS at 16 straight months. Indiana is part of the "Fifth Army" composed of 13 states including Michigan on the east, Colorado on the west, the Canadian border on the north and Missouri on the south. You can bet that the "Indiana MARS" group will not stop and rest on their laurels but will continue under excellent leadership to extend this record.

Normal expansion of membership runs no more than 5% with a total membership of about 55. Quantity is not sought nor desired, only "Quality" of the person. It is not necessary to be a "hot shot operator", only the desire to learn and persist. There are many advantages to being a member of this organization such as fellowship, training and the extensions courses offered by the Army Signal Corps School on all phases of radio, teletype and television. However it is true that the goal of "Army MARS" is to make an acceptable radio operator, capable of handling all modes of operation, under trying conditions.

"TARS HAMFEST" ECCO VALLEY Monitoring Freq 3910 50.4 146.94 147.3

August 29. All roads lead to TARS Hamfest----August 29, ECCO Valley

CONTESTS GAMES PRIZES DISPLAYS EYEBALL QSO CORNER

ENTERTAINMENT FOR THE YLS AND XYLS. GAMES FOR THE KIDDIES TOO.

Ecco Valley is located on HWY 460 between Evansville and Wadesville.

A meal will be served - Price \$1.50. Picknickers will find plenty of

Tables and shade. ADVANCE REGISTRATION WILL BE \$1.50 -- AT THE GATE \$2.00

Advance registrations and lunch tickets can be picked up at the registration desk. Lunch reservations MUST be received by August 26.

Please use the attached form when making reservations and advanced reservations.

TARS - Post Office Box 492 - Evansville, Indiana. 47703.

Please make _____ Advance registrations at \$1.50

Please make _____ ~~KNEE~~ Lunch Reservations at \$1.50 TOTAL REMITTED \$ _____

Name _____ Call _____

Address _____ City and State _____

The new address of John Harkins is 1100 South Bennighof Avenue TX 476 2627

A reciprocal operating agreement is now in effect between the United States and Luxembourg. Amateurs of one country visiting or residing in the other may obtain permission to operate their own amateur stations there. The United States has previously reached such agreements with Australia, Belgium, Bolivia, Canada, Costa Rica, the Dominican Republic, Ecuador and Portugal. Many others are being negotiated and successes will be announced as they occur.

The colorful identification ribbons being worn by Hamfest Officers were made by Mary Wurtz and Dorothy Green. Our thanks to them for a job well done.

NOTICE There will be NO regular TARS August Meeting. CU at Ecco Valley NOTICE



TRI-STATE AMATEUR RADIO SOCIETY, INC.

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SEPTEMBER 1965

AMATEUR RADIO W9LIT

Affiliated with the American Radio Relay League and the Indiana Radio Club Council.

Clifford C. McGuyer, W9DGA, PP, Editor, 4767483

Herb Muth, W9N2C, Advertising Mge., 423-0373

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Vice President, W9BKJ	853 8496
Secretary, W9N2C	423 0373
Treasurer, W9DGA, PP	476 7483

DIRECTORS

W9RDJ, PP	476 7601
K9JQY	476 6836
W9LXA	985 3530
W9GFS, PP	476 4825
K9PAR	424 7028
K9STX, PP	425 3841

Emergency Coordinator, Ray Miller, W9OG, PP 476 1963

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2900 East Oak Street
Evansville, Indiana 47714

September Meeting
Thursday, Sept. 30th
Lighthouse

SIMULATED EMERGENCY TEST
OCT. 9-10, OCT. 10-11, 1965
By Ray Miller, W9OG
Emergency Coordinator

This year in order to evaluate the liaison with the National Traffic System and its effectiveness in an emergency situation requiring long haul, it has been recommended that more messages be originated at the local level directed to friends and relatives at distant points. To gather this local traffic the Southwestern Indiana Emergency Net will be activated on Saturday night Oct. 9-10 at 2300Z to 0100Z (6 to 8 p.m. EST) with bulk of traffic being handled locally prior to zero hours Z. The frequency of 29.0 meg., 50.40 meg. and 146.94 meg. Individual stations should originate test messages from friends inquiring as to the welfare of their relatives or friends at distant points. All such messages should bear precedence "test P2" including a few words in the text indicating that the inquiry is being made during a national exercise to test our facilities. A suggested text: "ARL5 not an emergency, just a national exercise of radio amateurs ARL7" or "ARL71 not an emergency----."

During this test, if you receive an inquiring message as to the welfare of some local person, your reply message should bear precedence "test P" "test emergency" or "emergency" only under genuine emergency conditions. We are also soliciting messages from Red Cross Chapters to ANRC Headquarters, from Civil Defense Directors to higher officials and from VIP's to ARRL Headquarters or elsewhere. Messages from AREC members to EC or SEC should be labeled "R". Your EC is soliciting someone to gather traffic on 50.4 meg. Each station should originate one message to SEC advising him that your station is participating in SET.

"AMATEUR RADIO AUXILIARY NEWS"
By Dorothy McGuyer

The August meeting was held at the home of Dorothy Green. Identifying ribbons were made for TARS workers at the Hamfest. Dorothy Smith won the attendance prize and Anna Mary Fink won the hostess prize. The hostess

"CLEAN HAM GEAR"

Heath Q - Multiplier	7.50
Heath VFO	15.00
Eico 90 Watt Transmitter	69.50
S-53 Hallicrafters	55.00
HT-40 Hallicrafters	79.50
NC-300 Receiver	249.50
Viking I Transmitter	125.00
SB-33 Transceiver	295.00
Knight Transmitter	39.50
Clobe Chief	29.95
B & W 5100 Transmitter	199.50
Clobe Scout Kit Transmitter	89.50
Oscilloscope	30.00
Fall Call Book	5.00
Gonset Receiver	59.50

For your Ham Needs See "CASTRUPS"
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ARA News Cont'd

reated members with a tasty variety of refreshments. Sorry your reporter was unable to be present.

Helen Cox was hostess for the September meeting. Again this year, the ARA assisted TARS with their annual Hamfest. As usual, the bingo was a huge success with Mary Wurtz and Dorothy Green in charge. Betty Miller purchased the prizes. Jeannette Covert served coffee and cupcakes. Betty Miller, Evelyn and Deborah Galbraith were in charge of soft drinks. The other members served the dinner. This event is always enjoyed by the Auxiliary.

Dorothy Smith, our president, now possesses the luck Evelyn Galbraith once had. Dorothy again won the attendance prize while Betty Miller was winner of the traditional hostess prize Helen always bakes--a delicious German chocolate cake. Fortunately, Helen baked one for our desert so we all left happy. Little Tony and Alan Cox helped Mother to entertain us.

We extend our congratulations and sincerest best wishes to Mrs. Anna Fink who recently celebrated her 93rd birthday while convalescing in Welborn Hospital from a hip fracture. Members of the hospital staff presented her with a birthday cake, a picture of which appeared in the Evansville Courier. We missed Anna Mary at our meeting but understand as she and Bob faithfully visit Mrs. Fink.

We are eagerly looking forward to a surprise Halloween party Betty Miller is planning for us and husbands.

"THE PRESIDENT'S CORNER"

By K9PNJ

Another successful Hamfest has gone by and I wish to take this opportunity to thank all who helped make this a good one. We broke even and this is good for we are a non-profit Club and everything went back into the fun. We are now in the process of formulating the 1966 Hamfest and as you know this is a big project. We will have a new location, format and many new ideas, so if you want to be heard come to the meeting Thursday. At the meeting Thursday will also be nomination of officers for 1966. Many have

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THE PRESIDENT'S CORNER CONT'D

volunteered already so get your name in the pot and serve. Remember, an Amateur is a lonely person, by himself, for it takes two or more to make a QSO. This is the reason for organized Clubs, to guide and co-ordinate efforts and have common goals in mind.

73, K9PNJ

"TARS SEPTEMBER MEETING"

The Tri-State Amateur Radio Society will hold its regular September meeting at 7:30 p.m. Thursday, September 30th at the Lighthouse, Second Avenue and Virginia Street.

The program will be a talk "Phase Relationship in Alternating Currents." This will be given by Fay Gehres, W9AIN of the Southern Indiana Gas and Electric Company. This should be an interesting subject.

We will meet on the second floor in the newly refurbished air conditioned hall. K9PNJ's special "coffee and donuts" will be served.

The October meeting will be the annual election of officers to take office January 1, 1966. The November meeting will be the "Founder's Day Banquet" honoring all of our past presidents. As in the past, this banquet is free to paid up members and all past presidents. Robby, W9MKZ is the chairman for the "Gala Event" this year. All XYL'S and YL'S invited as are non member amateur radio operators. More on this in the next issue of Sparks

"TRANSMITTER HUNT"

By K9PNJ

Our third Hidden Transmitter Hunt was another huge success. Ronnie Neale, W9VZX was first in on 50.4 MC. The competition was keen and all hunters were close by at the end. No one had to be called in but all came in on the beam, furnished by W9WUH and W9HAK. K9PNJ was within throwing distance of the site and his receiver went off. He called for help and within minutes W9HAK and K9JSK came to his rescue. He transferred to Pau's car and they soon came in second.

(cont'd next page)

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TRANSMITTER HUNT CONT'D

All were tired, hungry and thirsty and we soon made with the hotdogs and cold drinks. Jack Hudson, Wn9HAC promised an article on a converter for less than \$10, to be hooked into your present BC receiver, so you have no excuse for not joining the fun. If you need a loophole call John, W9WUH.

FOR SALE: National NCX-3 transceiver with AC power supply. Mint condition in original packaging \$310; 3 kw Onan 115 volt 60 cycle gasoline generator mounted on two-wheel trailer \$100; telephone 422-2202 extension 535 or 546. Bob Thomason, W4SUD.

"INDIANA ARMY MARS DIRECTOR HONORED"

W9JYO, State Army Mars Director of Jeffersonville, Indiana was honored by the Fifth Army at the 9th annual Indiana Mars picnic.

The citation is in recognition of patriotic civilian service contributing to the accomplishment of the missions of the Fifth United States Army.

Through the leadership of W9JYO, Indiana Army Mars holds the National record for participation at two years and one month. As each month passes, this record is being extended by the dedicated leadership of W9JYO. TARS wishes to congratulate W9JYO, Thelma Zimmerman, on receiving this honor.

FOR SALE: One 6146A \$3.00; three 6146 \$3.50 ea.; two 5R4GY \$1.25 ea.; two 5U4G 65¢ ea. See K9JQY, Charles R. Greene, 2021 E. Franklin Street, Evansville, Indiana Phone 476 6836

"RADIO OPERATOR EXAMINATION SCHEDULE By K9JQY"

During the month of October Amateur Radio License Examinations will be held at Chicago each Friday, November, in addition to Chicago, Nashville, St Louis, Indianapolis and Louisville. Examinations start at 9 AM local time. All candidates for examinations should contact the appropriate office prior to appearing at a point away from the office. The Chicago address is 1872 U S Courthouse, 219 South Dearborn Street. Write to the Field Office for the exact date for exams at the quarterly points listed.

FROM HERE AND THERE. K9LAU is back on the sick list for the second time recently. He is at St Marys and can receive visitors. We all wish him a speedy recovery...I hear a clique is going to take over the club in 1966. Be there For the October Election of Officers meeting to defend your TARS and elect the men to serve you...Now is the time to order your 1966 License Plates. Address is Bureau of Motor Vehicles, State of Indiana, State Office Bldg, Indianapolis, Ind. 46209. Ask for form #140 and it has the complete instructions for ordering your plates....Mr A.C. himself, Fay Gehres, W9AIN will present a talk on AC Power Lines at the Thursday meeting. Don't miss it. FROM FRED SAWYER, W9FJI. Amateur Operators will receive 100 free QSL Cards by sending a request to the Indiana Coal Association, 632 Cherry Street, Terre Haute, Ind, giving his FCC Call letters, Name and full Address. Tx Frd.

ARRL CODE PRACTICE. There are two daily periods for code practice from ARRL. They are 2330 to 2359 GMT and 0130 to 0230 GMT on 1805, 3555, 7080, 14,100 kc. GMT Days of week, Mon Wed Fri Sun speeds of 5, 7, 10, 13, 20, and 25. GMT days of week, Tues Thurs Saturday speeds of 15, 20, 25, 30 and 35. Don't forget to use on voice, "this is" or "from" before your call.



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W9RDJ PP	476 7601
K9JQY	476 6836
W9LXA	985 3530
W9GFS PP	476 4825
K9PAR	424 7028
K9STX PP	425 3841

EMERGENCY COORDINATOR, Ray Miller, W9OG PP, 476 1963.

Return requested
Tri-State Amateur Radio Society, Inc
2900 East Oak Street
Evansville, Indiana. 47714.



October Meeting
Thurs, Oct 28.
Annual Founders Day Banquet
Thurs, November 18.

Clifford McGuyer
2900 E. Oak St.
Evansville, Indiana

L9DGA

"THE PRESIDENT'S CORNER"

By K9PNJ

Time is flying and the year is slipping by and so many things left undone. Be sure to come to the meeting Thursday night, October 28 and vote for your favorite candidate to run your Society in 1966. We have a fine group of volunteers from which to choose, so come and show your loyalty.

Elsewhere in SPARKS are details of the 5th Hidden Transmitter Hunt of the year. Sunday afternoon, October 31 is the date, "rain or shine". You can't enjoy Amateur Radio if you don't participate. Many "ole timers" and new ones too, are finding this is quite a sport and it grows on you. When that "S" meter shows S9 and you know that transmitter is close by - you sort of get frantic trying to find it. The one great day of getting together and honoring our "Past" leaders of our Society is also close by. The "Annual Founders Day Banquet" is November 18. The ladies also enjoy this one, so mark it on your schedule.

"TRANSMITTER HUNT"

The Tri-State Amateur Radio Society will hold a "Hidden Transmitter Hunt", Sunday, October 31, starting promptly at 1:30 PM. Frequencies will include 29.0 and 50.4 Mc. The starting place this time will be "Roberts Municipal Stadium" parking lot. Time and mileage will determine the winner and "refreshments will be served." The ladies are welcome as always. Come and make this a family affair.

"TARS SWEEPSTAKES PARTICIPATION"

TARS will award a Plaque to the high "phone" and high "CW" scorers in the coming ARRL "Sweepstakes" contest. Within two weeks after the ~~xxxx~~ end of the SS submit copy of the log that you send to the ARRL to our President K9PNJ who is acting as the judge. When you send your log to ARRL be sure to indicate that you are a member of TARS. You make enter both the CW and Phone contest, but cannot win both plaques. Good luck.

From ARRL. The 32nd ARRL Sweepstakes will take place the middle weekends of November with full rules soon to appear in the November QST. (Nxt Pge)

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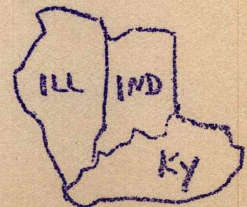
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RCA VoltOhmyst - Kits - Only \$29.95

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Evansville, Vincennes, Indiana. Owensboro, Ky. Centralia, Illinois.

SS Cont'd. Phone, November 13 and 14, and c.w., November 20 and 21, will be held on separate weekends with 24 out of 30 hours of operation permitted. The exchange information will follow that used last year. Newly designed log forms and operating Aid Nr. 6 to avoid duplicating QSOs are now available without charge from the ARRL Communications Department, 225 Main Street, Newington Connecticut 06111. Here is your opportunity to have some fun.

"ELECTION OF OFFICERS"

The regular "Election of Officers" for the Tri-State Amateur Radio Society will be held Thursday, October 28, 1965 at the "Lighthouse". The meeting will start promptly at 7:30 PM. "Coffee and Donuts" will be served. If you cannot be present, mail this ballot to "TARS", PO Box 492, Evansville, Indiana. Those nominated at the September meeting are as follows.

PRESIDENT. Charles R Greene, K9JCY
VICE Pres. John L "Les" LaVanchy, W9LXA
TREASURER. Ray Miller, W9OG PP.
SECRETARY. Clifford McGuyer, W9DGA PP.

The Directors receiving the most votes will be accorded a longer term. The three (3) Directors receiving the most votes will be declared elected for a two (2) year term, and the next two (2) highest directors will be declared elected for a one (1) year term. All starting January 1, 1966. W9RDJ PP is the hold over Director from last year for 1966.

DIRECTORS VOTE FOR FIVE (5)

Charles Robertson, W9MKZ ☐
 Harold McClellan, W9WNM ☐
 Paul Wurtz, K9JSK PP ☐
 Herbert Muth, W9NZC ☐
 Macer Edmond, WA9FEE ☐
 Sam Arthur, WA9JZX ☐

Call
Name

FOR SALE. Sold as a complete station. \$500.00. Johnson Viking Valiant, HC145X receiver, Model 19 Teletype, W2JAV Converter, BC221, 5" Scope, six foot metal cabinet and many other miscellaneous items. See "Jeff" Pruden, K9HCE, 6218 Roger Park Court, Evansville, Indiana. Phone 476 2795.

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 Evansville, Indiana
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Weller Soldering Guns and Parts
 Coaxial Cables.

"TARS ANNUAL FOUNDERS DAY BANQUET"

By W9MKZ

The Tri-State Amateur Radio Society will hold its Annual "Founders Day Banquet" Thursday November 18, 1965 at the "Greens Motel", 1901 North Highway 41. Starting time promptly at 6:30 PM. This affair is designed to honor all the "Past Presidents" of TARS. The Dinner will be free to Club members in good standing and any past president who is not now a member.

Advanced reservations must be made. Complete the following reservation blank and return it as soon as possible to the "Banquet Chairman, Charles Robertson, W9MKZ so as to be received no later than November 16. For other interested persons the price of the dinner will be \$2.00 with advanced reservations. The "past presidents" will be seated at the speakers table.

The menu will be "Turkey and all the Trimmings" served "family style". The program will be a "Surprise" Bring your XYL, YL for some delicious food. Attendance prizes will be given.

Past Presidents include, 1947 W9GFS; 1948 W9AIN; 1949 W9UMS; 1950 W9UMS; 1951 W9HX and W9HRH; 1952 W9JFJ; 1953 W9NJR; 1954 W9EHU; 1955 W9DGA; 1956 W9RBV; 1957 W9OG; 1958 W9RBV; 1959 W9UMS; 1960 K9JCN; 1961 K9JSK; 1962 K9WV; 1963 K9STX; 1964 W9RDJ; and 1965 W9PNJ.

"ANNUAL FOUNDERS DAY BANQUET, RETURN REGISTRATION BLANK"

Mail to: Charles Robertson, W9MKZ, Chm, 502 South Lincoln Park Drive. Evansville.

Please reserve one FREE Dinner for me for the Founders Day Banquet to be held Thursday, November 18, 1965. I am a member in good standing.

Name _____ Call _____

Address _____

Please reserve _____ Dinners at \$2.00 each for the following.

Name _____ Address _____ Call _____

Name _____ Address _____ Call _____

"BETTER HAM GEAR"

Globe Scout	\$49.50
Globe Chief	29.50
NC-57 National Receiver	59.50
HQ-170 Receiver	225.00
NC-270 National Receiver	199.50
SB-33 Transceiver	295.00
B & W 5100 Transmitter	199.50
Viking Transmitter	125.00
Heath "Tenner"	29.95
Hallcrafters S-85	79.50

These items are clean, in "Better than average" condition.

Many More. Come in - - Look Around.

CASTRUP'S

1014 West Franklin Street

Evansville, Indiana.

"AMATEUR RADIO AUXILIARY NEWS"

By Dorothy McGuyer

The annual Halloween party for members and husbands was held at the home of Ray and Betty Miller Saturday night, October 16th. Attractive decorations were in the Halloween theme. A surprise party it was indeed---a "Bunny Party". Betty and Anna Mary Fink greeted guests attired in the appropriate bunny suit. It was also a "come as you were" the night they rang our door bells. Yes, several were fast asleep so retiring dress it was. The luckier ones were privileged to wear dressed, shorts and slacks.

The gala event began with the initiation of all into the life membership of the "A.R.A. BUNNY CLUB". The test of performing feats of entertainment and dexterity was passed by all. We now hold certificates stating same, witnessed by Anna Mary and Robert Fink and Betty and Raymond Miller along with puffy little bunny tails. A more fun loving time was never had.

Among entertainment was the eating of marshmallows by blindfolded Darwin Covert and Clif McGuyer. They had to feed each other, thinking the one who found a peanut in a marshmallow was the prize winner. What they did not know was the marshmallows had been rolled in charcoal dust (purchased from drug store) until they became suspicious at the hilarious laughter and removed the blindfolds. What sights their faces were! Many pictures were taken during the evening by Al Schoettlin and Ray Miller among which was Jeannette Covert and Evelyn Galbraith modeling bunny costumes. Earl Green brought his spittoon which served as a "catch all".

We were served a complete delicious buffet supper prepared by our hostess assisted by Anna Mary Fink. After 12:00 midnight, we sang "Happy Birthday" to Anna Mary and wished her many more. The A.R.A. extends a most hearty thanks to the Millers for a most delightful and unique evening.

Mary Wurtz was hostess for our October meeting. Dorothy Green won the attendance prize and Betty Miller the hostess prize which was two attractive pot holders made by Mary. In the absence of our president, Dorothy Smith who is visiting in Memphis, Betty Miller presided. We speak a most enjoyable evening including one of Mary's fancy delicious deserts. Our November meeting will include the election of officers.

"OPERATION - INTERNATIONAL SPORTS CAR RALLY"

By W9OG PP

One of the most challenging projects concerning radio amateur communications has been entrusted to the amateurs of the "tri-state" area. The event is the "International Sports Car Rally" sponsored by the Southern Indiana Region of the "Sports Car Club of America" and to be held on January 22 and 23, 1966. Communications will be required for about 24 hours during the period. The twenty four hours may or may not be consecutive.

The "rally" will attract many sports car enthusiasts from the entire country and from some foreign countries. The event more than likely will attract national publicity. Our participation should present an opportunity to "prove" to the community the unlimited communication possibilities which the radio amateurs possesses. The event is being planned to include the cooperation of amateurs in the tri-state area including, Henderson, Owensboro, and other southern Indiana towns. Before a call is made for volunteers and equipment, a careful analysis must be made of the particular type of communications required. It is intended to have both reserve equipment and personnel at each station, whether to be fixed, mobile or portable.

A preliminary meeting of the planning committee was attended Thursday October 21 at the YMCA. From this meeting some of our problems became known.

They include but are not limited to - 1. 100% dependable communications.
2. Legible written messages. 3. 100% accurate message handling.
4. Portable or fixed equipment for at least 10 check points over approximately a 350 mile course which may extend west to the Wabash River, south along the Ohio River, east to Tell City, north to French Lick and Vincennes.

Each "check point" will handle a minimum of 100 messages in four hours. With ten check points the control center would handle 1000 messages in four hours. This for each run, and there may be as high as three runs. Granted the messages would be short but would include no less than a serial number (which would include letter designating check point) an arrival time and a departure time plus any other information requested. TARS Board of Directors has allocated \$25.00 as first installment to cover any necessary cost. More definite information will be forthcoming.

FROM ARRL. In recent years, amateurs have been electrocuted and others have suffered injury, caused by the failure of bypass capacitors in the primary circuit of AC power supplies. This type of accident can be avoided by the use of a common ground system linking all equipment chassis to a water pipe or other good ground connection. If you will send a stamped self addressed envelope with a note to ARRL requesting same, you will receive a copy of the Safety Code and Safety Supplement. Address your request to the ARRL Communications Department, 225 Main Street, Newington, Connecticut 06111. Switch to safety and stay alive.

"FCC REQUIREMENTS FOR MOBILE OR PORTABLE WORK"

No notice is required for work away from your fixed station location for less than 48 hours, but the FCC Engineer in charge of the district where operation will take place must be notified for more extended work. Notices (postcards used except the where several districts will be covered) must include (1) Call sign of your station (2) Name of licensee (3) Address as shown on your license (4) Specific itinerary for mobile operation plan (5) Dates and places, beginning and end of periods away from fixed location (6) Address thru which licensee can be reached (7) For mobile, name, license or registry number of vehicle, vessel, or aircraft in which installed-operated, all details per sections 97.87, 97.95, 97.97 and 97.99. For temporary or permanent moves, of foreign work see additional information furnished in our rules and regulations.

IDENTIFICATION REQUIREMENTS when mobile or portable: (Voice) Call sign followed by "mobile at....." or "portable at.....(location)". (CW) Call followed by slant sign (/) and the number of the call area or prefix of the country where operating. Be sure to have your combined station-operator license (original) with you when operating....a photocopy is good ONLY FOR THE STATION when some other amateur licensee is operating. Novice or Tech. licenses are not good for any operating in General Class bands. Operations in inland waters are generally speaking simply "mobile" work but on the high seas or in an aircraft the call identity will be followed (cw) by /MM or /AM respectively with the approx. geographical location and identity of ship or aircraft. The corresponding situation (voice) calls for the words "THIS IS" or "FROM" before the call and words "maritime mobile" or "aeronautical mobile" respectively before stating the location, name of vessel or number of the aircraft.

From CRPL:.....considerable interest was centered on a new cycle sunspot group born on the dist April 21 in a region which rotated onto the disc April 15. This group, thought to be the first new cycle sunspot appearing in a region at low latitude, gives further evidence of the start of the new sunspot cycle".

Accuracy first. A slow steady pace of reading traffic with properly grouped words...A fist giving the message at a steady instead of erratic pace gets the traffic through with minimum chance of garbles or repeats.



TRI STATE AMATEUR RADIO SOCIETY, INC

Published monthly by the Tri-State Amateur Radio Society, Inc., as its official organ.

NOVEMBER 1965

AMATEUR RADIO W9LIT

Affiliated with the American Radio Relay League and the Indiana Radio Club Council.

Clifford C McGuyer, W9DGA PP, Editor. 476 7483

Herb Muth, W9NZC, Advertising Mgr. 423 0373.

OFFICERS

President, K9PNJ	963 5015
Vice President, W9BKJ	853 8496
Secretary, W9NZC	423 0373
Treasurer, W9DGA PP	476 7483

DIRECTORS

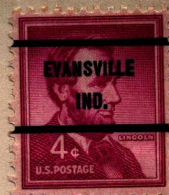
W9RDJ PP	476 7601
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Evansville, Indiana. 47714.

Clifford McGuyer
2900 E. Oak St.
Evansville, Indiana

L9DGA



"THE PRESIDENT'S CORNER"
By K9PNJ

Our "Hidden Transmitter Hunt", Sunday October 31 was the best yet. The Winner was W9DGA. The weather was beautiful and the signals were S9 when we all met at "Roberts Stadium" parking lot. K9JSK took the mileage of each participants and last minute adjustments were made to the loops. W9DGA drew a co-ordinate across town from the "Stadium" and the "K Mart" parking lots, which turned out to be within 4 blocks of the site, or about 1 or 2 degrees. Off we went in all directions and one fellow, for the second time in a row, claimed, "receiver trouble" just 2 blocks from victory. Won't mention names but his call letters are PNJ and he challenges all comers to the next "hunt". Some statistics are; K9JSK and copilot WA9JZX; W9HAK 14 miles; W9WUH 21 miles; K9PNJ 21 miles & copilot Dorothy; K9PAR copilot W9LXA 27 miles; W9MKZ and wife and son 11 miles (he had to disqualify himself because he did not start at the same location) W9DGA & copilot Dorothy 12 miles. W9VZX put out the signals and it was put on in real pro style, with the help of his wife and friends. He served drinks and goodies to all hunters. W9DGA, as winner, promises to give us a real bang-up hunt soon, so watch for date and details.

"TARS OFFICERS FOR 1966"

At the October meeting the annual "Election of Officers" for TARS was held with the following results.

PRESIDENT Charles R Greene, K9JCY
VICE PRES John L "Les" LaVanchy, W9LXA
SECRETARY Clifford McGuyer, W9DGA PP
TREASURER Ray Miller, W9OG PP

DIRECTORS FOR 1966 & 1967

Charles Robertson, W9MKZ
Macer Edmond, WA9FEV
Harold McClellan, W9WNM

DIRECTORS FOR 1966

Sam Arthur, WA9JZX
Herbert Muth, W9NZC

Hank Gailbraith, W9RDJ Hold over for 1966.

"THANKSGIVING SPECIALS"

Heath "Tenner"		\$29.95
National NC-270 Receiver		199.50
HC-110A Receiver, NEW		249.50
Johnson Viking Transmitter		125.00
HC-110 Receiver		169.50
Gonset 2 meter Sidewinder		399.50
Globe Scout Transmitter		49.50
Hallicrafters SX-99	89.50	255.00
SB-33 Transceiver		295.00
Hammarlund Electronic Keyer, NEW		39.95
SB-34 Transceiver, NEW		395.00
NCX-5 Tranceiver, NEW		685.00

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"ANNUAL FOUNDERS DAY BANQUET"

TARS "Annual Founders Day Banquet" honoring all the "Past Presidents" was held November 18 at the Greers Restuarant. Charles Robertson, W9MKZ, was chairman of this successful event. Slides were shown by Mr and Mrs Henry Ruston of their recent visit to Japan and were very much enjoyed. Entertainment also included a "Ham Crossword" puzzle and a "Hidden Transmitter Hunt" within the building. 11 of 18 years presidents were present and honored. Thanks to "Robby" for handling this event.

"NO MEETING"

There will be no regular "December TARS" meeting. Next regular meeting will be held the last Thursday of January 1966. A Board of Directors meeting will be held sometime during the month of December for reorganization under the new Officers and Board of Directors. Committees along with the Chairmen will be appointed at this meeting preparing for January 1, 1966, when the Society will once again set sail for all the usual Society Activities.

"INTERNATIONAL SPORTS CAR RALLY CANCELED"

The International Sports Car Rally has been canceled for the time being. It seems as if they had some trouble getting the Rally approved by the National organization. The pass along their "thanks just the same for the help". It will be rescheduled for the future. Jim "Wheel" Barrow, W9CVN.

"AMATEUR RADIO AUXILIARY NEWS"

By Dorothy McGuyer

The November meeting was held at the home of Dorothy Smith, our president. It was the evening "Winter" seemed to be arriving and Dot kept us supplied with hot coffee and snacks climaxing with delicious pie. The attendance prize was won by Mary Wurtz and Dorothy Smith was winner of the hostess gift. The following officers were elected for 1966. President, Betty Miller, Vice President, Dorothy McGuyer, Secretary, Helen Cox, and Treasurer, Jeannette Covert. Plans were completed for the Christmas Party. (more)

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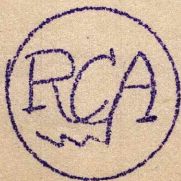
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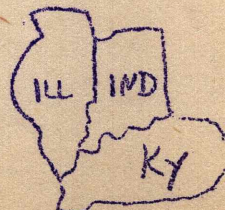
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ARA Cont'd. The Christmas Party this year will be held at the "Homestead". We were glad Evelyn Galbraith's hospital stay was a short one and is fine again. The "Bob Finks" enjoyed a visit throughout the state of Florida visiting relatives and friends.

FOR SALE. National NCX-3 Transceiver with AC power supply. Mint condition in original packaging \$275. Model 15 Teletype in perfect condition with converter \$75. Phone Evansville, Harrison 2-2203 extension 535 or 546 or call Owensboro Ky, 683-9871. Robert Thomason, W4SUD.

FOR SALE. 2 Weston Fan type milliamper meters. 10-0-10 and 40-0-40 ma. Vacuum and pressure guages. Aircraft 8 day jeweled clock. W9LXW 476-9870.

"OUR NEW DIRECTOR, HAROLD MCCLELLAN, W9WNM"

The following is taken from March 1941 "CRZ" the name of the club paper before "SPARKS". Mac got his first ticket in 1919. At that time there were only two licensed hams in Detroit, but six stations operating. He held the calls W8JCS and W8CAA. He was interested in traffic handling and was NCS for old AARS (now MARS). When Frank Murphy, a native of Detroit became Governor General of the Phillipines, quite a bit of traffic flowed into Detroit and Mac handled his share. At one time the Detroit Amateur Radio Club had 700 or 800 members. Ships that were layed up in the lake harbors for the winters usually had a man aboard as a watchman during the winters. These fellows were usually the ship radio operators. They would assign themselves a VE call and work the local gang. As these rigs were self rectified push pull affairs, their notes were usually Tl. Mac was 38 years old, 5' 11" and weighed 165 pounds. He attended school in Flint Michigan. Mac says his first contact was with a bootlegger. Dx in those days consisted of working in Detroit from Cleveland, about 200 miles. This interview was conducted by W9QLW.

Other items from this same issue..W9RZM rebuilt buffer stage and will spend most of his time on 40CW. W9UMS plans on changing QRA. W9DGA received his ORS and will give talk on "Wave Propagation" at next meeting ('41). W9GZB loaned his 35TH final amplifier tube to W9BVS. W9QLW is going to 80 CW. W9QLW visited W9KVE and W9UIA at Police Radio. (My but how time flies-DGA).

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L9DGA

"THE PRESIDENT'S CORNER"

By K9PNJ

Your 1965 President extends Seasons Greetings to all and sincerest thanks to everyone for their support given the Society in 1965. A happy and prosperous New Year to all!

"THE INTERNATIONAL SPORTS CAR RALLY"

As all of you know by now the local "Sports Car Club" has decided to cancel their "International Sports Car Rally", that was to be held in January of next year. Jim "wheel" Barrow, W9CVN, a sports car enthusiast and member of the local sports car club advised TARS that for the time being their organization was cancelling the big rally. He stated the reason was getting approval from the "National Sports Car" organization to sanction the rally on a national accredited basis. They did not want just another rally but one that was national in scope. Cars from a least a half dozen foreign countries had entered the field. They plan on a future date with National organizational approval. You can see their reasoning for this I am sure.

TARS should not feel badly about this even tho many hours of time was spent in planning the rapid communications system required. The experience gained by TARS in hasing over different ideas, contacts with other amateur radio clubs in the tri-state are will pay off in future emergency work. Our Emergency Coordinator, Ray Miller, W9OG should be congratulated on the planning done on this project even tho it has been cancelled for the present.

The Editor received a very nice article from W9HAK on "Etching Quartz Crystals" to change a crystal from one frequency to another. It is evident that W9HAK spent considerable amount of time on the article I am sure. As the process used Hydrofluoric Acid which is very dangerous and our paper goes to many of the younger hams, after seeking guidance, it was decided not to put the article as a regular Sparks article but copies will be made available to members requesting same from the Editor. Thank you, W9HAK very much.

"WISHING YOU A MERRY CHRISTMAS AND A HAPPY NEW YEAR"

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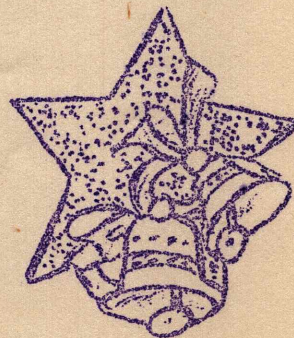
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"WISHING YOU A MERRY CHRISTMAS AND A HAPPY NEW YEAR"

"NOVEMBER TREASURERS REPORT"

January 1, 1965. Deposited Old National Bank.

\$1,116.10

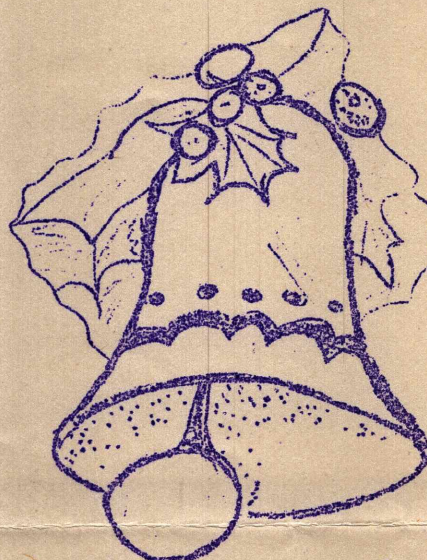
Receipts to November 30, 1965.

Dues	\$230.50
Sparks	115.00
ARRL CST	49.50
Hamfest	747.90
Two Meter Transmitters	158.00
Sale of Club Property	305.30
Auctions	14.63
License Manuals	5.50
Founders Day Banquet	40.00
	<u>\$1,666.33</u>

1,666.33
\$2,782.43

Expenses to November 30, 1965.

Meetings	\$ 17.40
Club Supplies	20.81
Sparks	77.38
ARRL CST	49.50
Hamfest	700.36
Directory	33.53
Fees and Taxes	1.00
New Club Property	318.15
Club Radio Parts	1.15
License Manuals	7.65
Insurance	78.72
Post Office Box Rent	12.00
Field Day	38.12
Transmitter Hunt	6.17
Awards	10.91
Donations (IRCC)	5.00
Founders Day Banquet	<u>\$ 105.07</u>
	<u>\$1,482.92</u>



1,482.92

Deposited Old National Bank, November 30, 1965.

\$1,299.51

Treasurer, W9DGA.

"GIFT SUGGESTIONS"

ARRL Handbook	\$ 4.00
ARRL Handbook, Spanish Edition	5.85
Radio Handbook (W6SAI)	9.50
Hallcrafters Code Practice Kit (even has record)	14.95
Eico Code Practice Oscillator - Kit -	8.95
Lectro-Lab Kit - Makes 15 circuits	11.95
Ham Clocks	8.95
Multimeters - many makes -	6.50 and up
Soldering Irons - all types -	3.95 and up
Soldering Pencils	1.65
Earphones (single)	.33

We have many receivers - HC-170, NC-270, HQ-110A, SX-117, Drake, S-120, SX-130 and many many others, new and used.

Transmitters: Valiant, Viking, B&W, Gonset, HT-37, SB-33 and many others, some as low as \$25.00.

Come in - Look Around

"CASTRUP'S"

1014 West Franklin Street

"AMATEUR RADIO AUXILIARY NEWS"

By Dorothy McGuyer

The annual Christmas Party was held December 4th at the "Homestead". Husbands were guests and there was a gift exchange. The delicious Dinner climaxed another successful year under the leadership of President Dorothy Smith; Vice president Betty Miller; Secretary Evelyn Calbraith and Treasurer Mary Wurtz. Jeannette and Darwin "Lefty" Covert spent a recent vacation in Florida. Sorry Jeannette had to spend several days in the hospital while there, but very glad to report she is out and about again.

We are eagerly looking forward to 1966 with Betty Miller as President.

FOR SALE. 3 Ele 15 Meter Gamma Match Beam. Make Offer to W9WUH, TX 4763858 and ask for George. WANTED: Navigator or Valiant. See W9DGA. Merry Christmas

"TARS OFFICERS FOR 1966"

PRESIDENT Charles R Greene, K9JQY
VICE PRES John L "Les" LaVanch, W9LXA
SECRETARY Clifford McGuyer, W9DGA PP
TREASURER Ray Miller, W9OG PP

DIRECTORS FOR 1966

Sam Arthur, WA9JZX
Herbert Muth, W9NZC

DIRECTORS FOR 1966 and 1967
Charles Robertson, W9MKZ
Macer Edmond, WA9FEV
Harold McClellan, W9WWM

Hank Gailbraith, W9RDJ PP is a
Hold over Director for 1966.

ARL 55 TO ALL FROM W9NZC & W9DGA.

"FROM FCC RULES AND REGULATIONS"

When telephony is used, the call sign of the station shall be preceded by the words "This is" or the word "From" instead of the letters DE, followed by an announcement of the geographical location in which the portable station or mobile station is being operated. Portable or mobile amateur radio telephone station operating in the 3rd call area calls a fixed amateur station: W1ABC W1ABC W1ABC "this is" or the word "from" W2DEF W2DEF W2DEF operating portable (or mobile) 3 miles north of Bethesda, Md., over.

A0 - Steady, unmodulated, pure carrier. A1 - Telegraphy on pure continuous waves. A2 - Amplitude modulated (tone) telegraphy. A4 - Facsimile.

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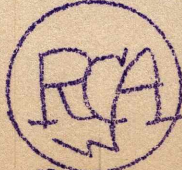
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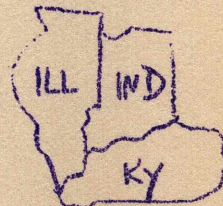
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